Beovision MX 3000

Beolink 1000 Terminal Stand 3000 Video Stand

Beovision MX 4500

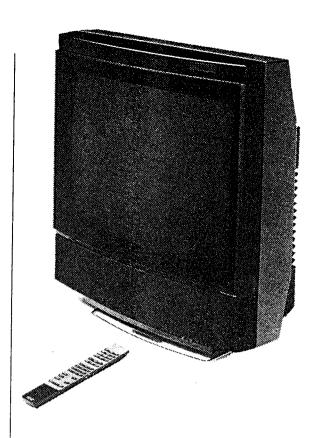
Stand 5000

Beovision MX 5000

Nicam 728 MB 5000 MS 5000

Nicam 728

New version



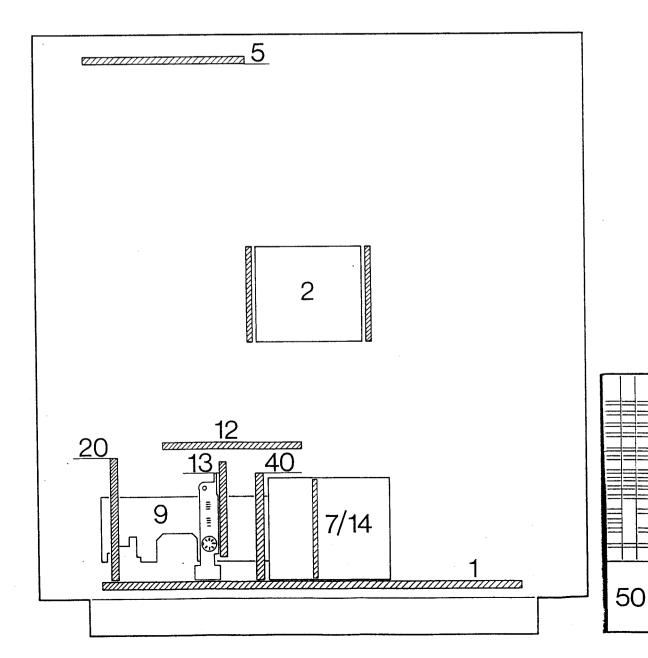


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| Nicam 728 |
| MB/MS 5000 |
| |
| Nicam 728 new version |

1-1

| 1 | Basic Board diagr. A-D-E-F-G page 2-6, 9, 10, 11, 12 | 13 | A/V Connections diagr. E page 2-10 |
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| TECHNICAL SPECIFICATIONS | BEOVISION MX3000 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Picture tube size | 55 cm - 21" |
| Visual picture size | 51 cm - 20" |
| Picture tube | Full square, black matrix |
| | In Line 110 degrees . |
| Cabinet | Red, white, black, blue and grey |
| Operation | Beolink 1000 |
| | Audio Aux Link, two-way datalink |
| Screen display | Programme No., Frequency, |
| | Picture and Sound adjustments |
| Sound system | Stereo decoder A2 built-in |
| | Bilingual sound A2 built-in |
| | Stereo enhancement, mono pseudo stereo |
| Nicam stereo | Prepared for Nicam stereo module |
| [eletext | 5 languages: S-D-GB-I-F |
| Teletext memory | 4 complete pages, + 4 page numbers for |
| | each TV programme, total 128 numbers |
| Number of TV programmes | 32 |
| Digital tuning system | VHF + S + Hyper + UHF channels |
| Tuner range | 45 – 855 MHz |
| Satellite programmes | Prepared for Beosat RX, AV Link 21-pin |
| | Beolink 1000 operation |
| Speaker system, stereo | 2 Log Line |
| Speaker units | 2 x 7.5 cm - 3" |
| Sound power output RMS | 2 x 15 watts/8 ohms |
| Sound power output music | 2 x 18 watts/8 ohms |
| Harmonic distortion | <0.5% |
| ntermodulation | <1% |
| requency range ±1.5 dB | 20-20,000 Hz |
| Power bandwidth | 20-12,500 Hz |
| Signal-to-noise ratio | >50 dB |
| Bass control | +16 -6 dB/60 Hz |
| reble control | ±10 dB/10,000 Hz |
| Power supply | 180-260 volts/50-60 Hz |
| Power consumption | 70 (50-120) watts |
| Stand by | <5 watts |
| Dimensions W x H x D | 51 x 55 x 41.5 cm |
| Veight | 23 kg |
| | |
| Onnections | |
| V Link | 21-pin |
| udio Aux Link | 7-pin |
| tereo headphones | Jack, separate volume control |
| xternal speakers | 8 ohms |
| | |
| | |
| | |
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| | |
| | |
| Management of the second of th | |

| Accessories | | | | | |
|-----------------------------|--------------------|--|--|--|--|
| Stand | ST 3000: Type 3085 | | | | |
| Beosat RX receiver, AV Link | Type 3026 | | | | |
| Nicam stereo kit, EU | Type 3037 | | | | |
| Nicam stereo kit, GB | Type 3040 | | | | |
| Loop amplifier | Type 3098 | | | | |

Type Survey

| Туре | | Colour | System | Teletext | Transposer |
|------|----------|-----------|---------|----------|------------|
| 3140 | EU-MULTI | PAL-SECAM | B-G-I-L | | × |
| 3141 | EU-MULTI | PAL-SECAM | B-G-I-L | x | × |
| 3143 | AUS | PAL-SECAM | B-G | X | |
| 3144 | ı | PAL-SECAM | B-G | X | |
| 3145 | EU-FTZ | PAL-SECAM | B-G | | |
| 3146 | EU-FTZ | PAL-SECAM | B-G | X | |
| 3147 | E | PAL-SECAM | B-G | X* | |

* 6 character S-D-GB-I-F-E Subject to change without notice

2-1

DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

Komponenttryk og koordinatsystem

PCB-tegningerne over de største printplader indeholder et komponenttryk og et koordinatsystem. På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på PCB-tegningen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktionsangivelse. Denne kan eksempelvis være ST.BY. = »low« i stand-by-stilling eller ST.BY. = »high« i stand-by-stilling.

Ledningsforbindelser

Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

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If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102*.

Component print and coordinate system

The PCB drawings of the largest printed circuit boards include a component print and a coordinate system.

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB drawing the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

Control Circuit

In certain control circuits the active mode is indicated by a function term. This may be e.g. $\overline{ST.BY}$ = low in the stand-by mode or ST.BY. = high in the stand-by mode.

Wiring Connections

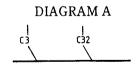
The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

INTERNAL CONNECTION ON ONE DIAGRAM PAGE



Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser, i hvilken retning, den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE



Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

Forsyningsspændinger

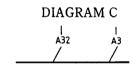
Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON. = 7 connections).

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE



A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

"7 CON.". This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON = 7 connections).

2-2

SYMBOL OF SAFETY COMPONENTS



Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsmodstand på 10 Mohm.

DC-spændingerne og oscillogrammerne er målt i TV-mode med »BRILLIANCE« niveau 20, »CONTRAST« niveau 24 og »COLOUR« niveau 40.

DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.

Alle oscillogrammer og AC-spændinger er målt i forhold til stel med et oscilloskop eller et voltmeter med en indgangsmodstand på 1 Mohm.

AC-spændingerne er opgivet i millivolt (mV), f.eks. 660 mV.



When replacing components with this symbol, components with identical part numbers must be used. The new component must be mounted in the same way as the one replaced.

MEASURING CONDITIONS

All DC voltages have been measured in relation to ground with a voltmeter with an input resistance of 10 Mohms.

The DC voltages and oscillogrammes have been measured in the TV mode with "BRILLIANCE" level 20, "CONTRAST" level 24 and "COLOUR" level 40.

The DC voltages are stated in volts (V), e.g. 0.7 V.

All oscillograms and AC voltages have been measured in relation to ground with an oscilloscope or a voltmeter with an input resistance of 1 Mohm.

AC voltages are stated in millivolts (mV), e.g. 660 mV.

DIAGRAM OF 1TU1 -**VHFTUNER**

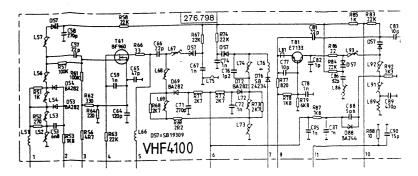
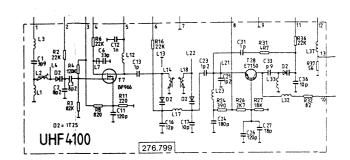
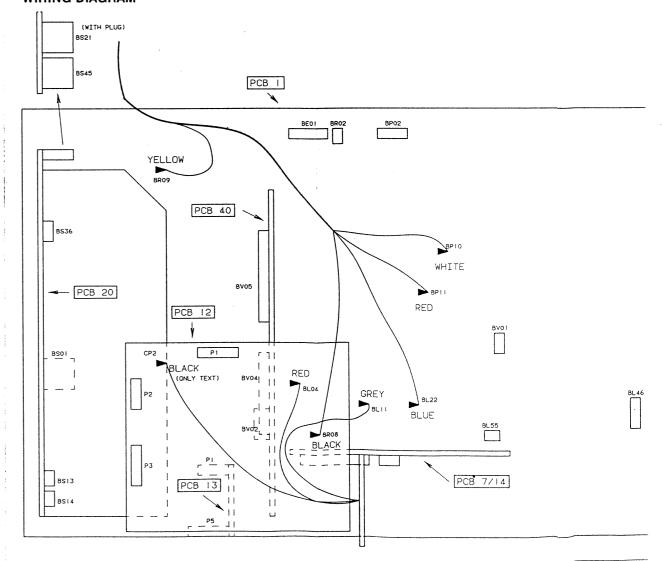
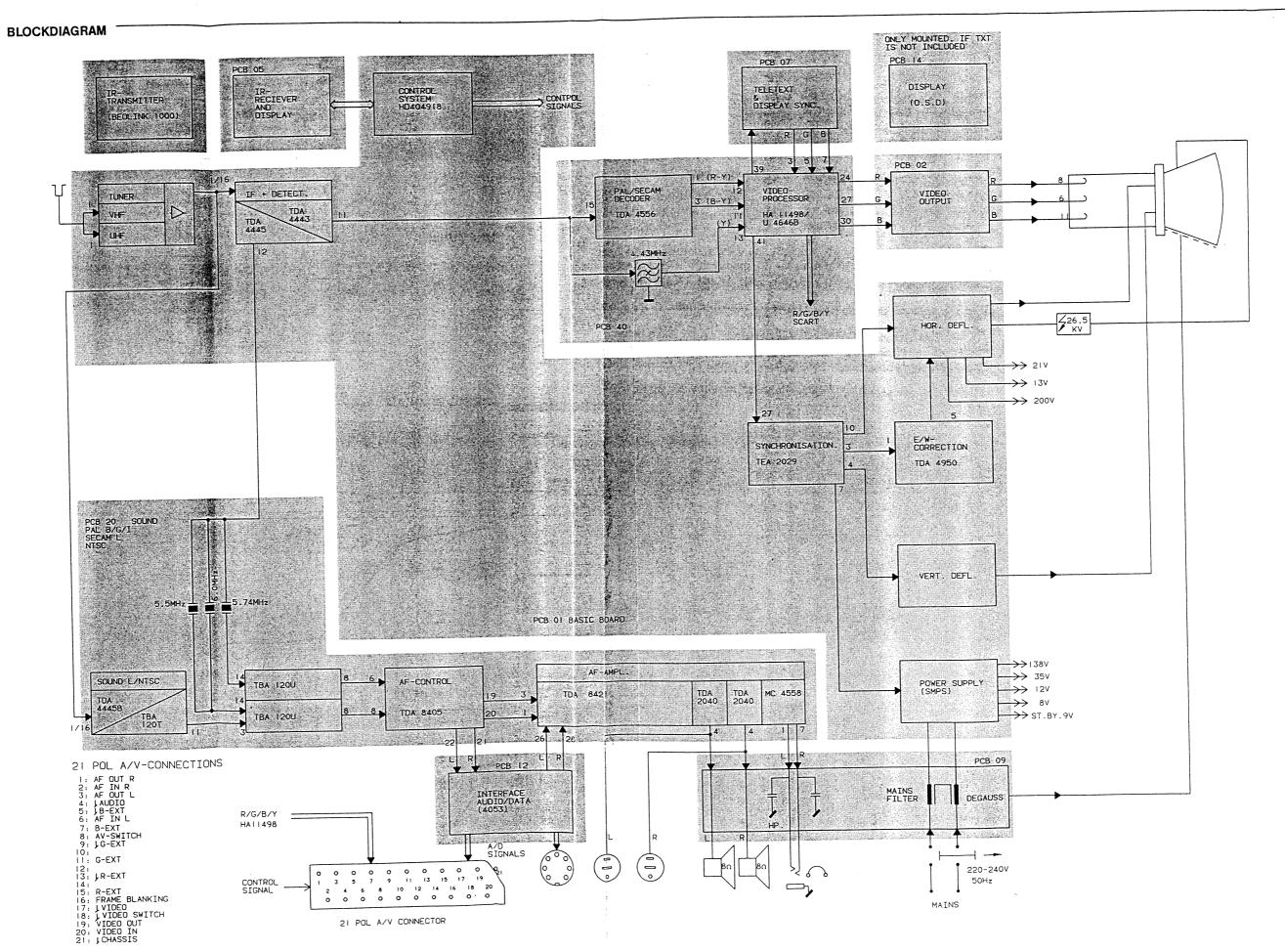


DIAGRAM OF 1TU2 -**UHFTUNER**

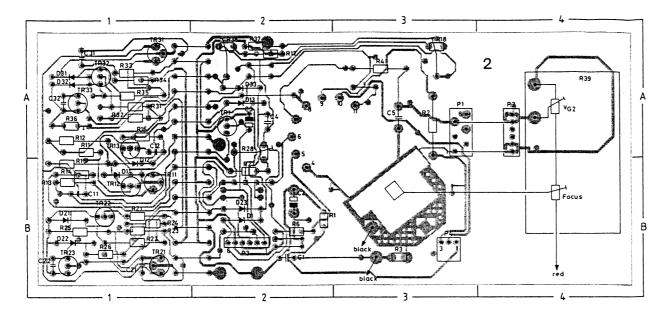


WIRING DIAGRAM





PCB2, VIDEO OUTPUT



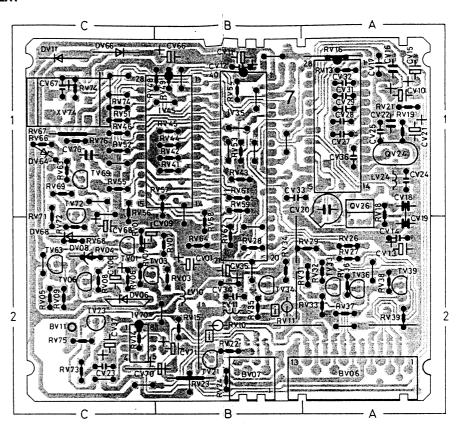
A4

A5

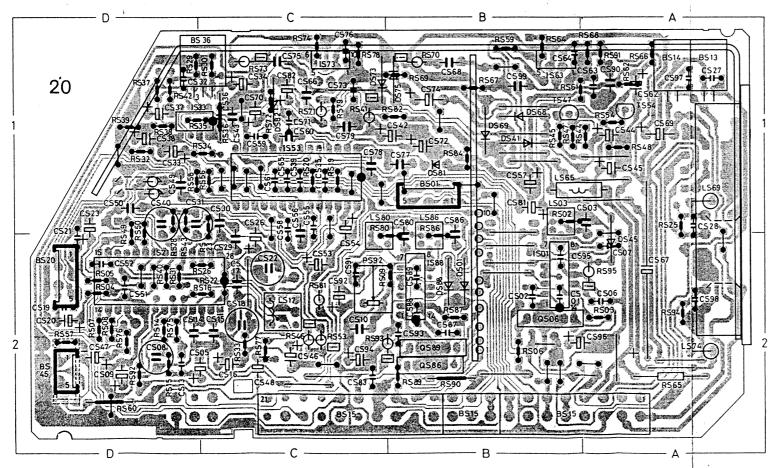
GOV pp

COADD H

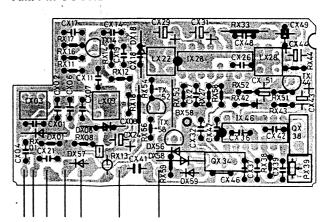
PCB7, TELETEXT



PCB20, SOUND B/G/I/L/M



AM/FM SOUND



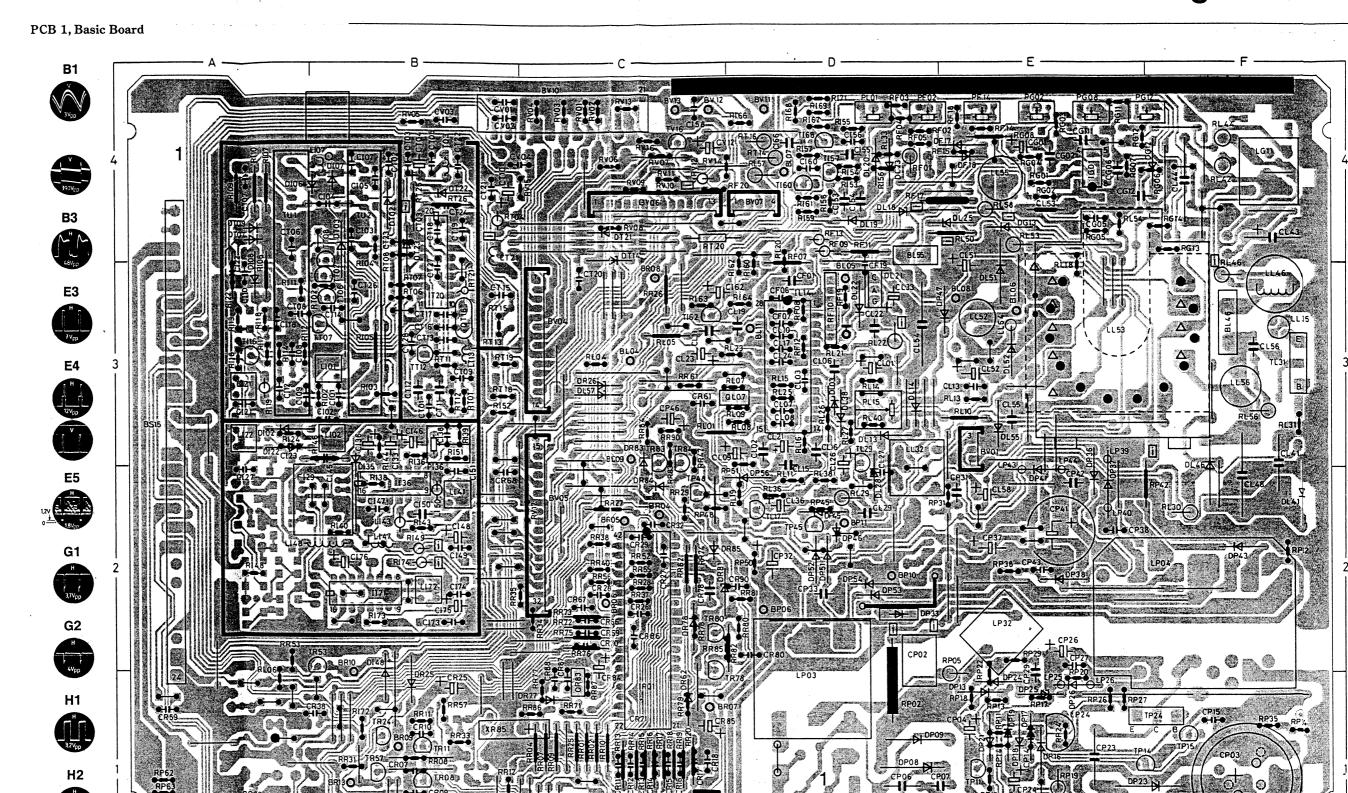


































DIAGRAM A TUNER AND IF SYSTEM

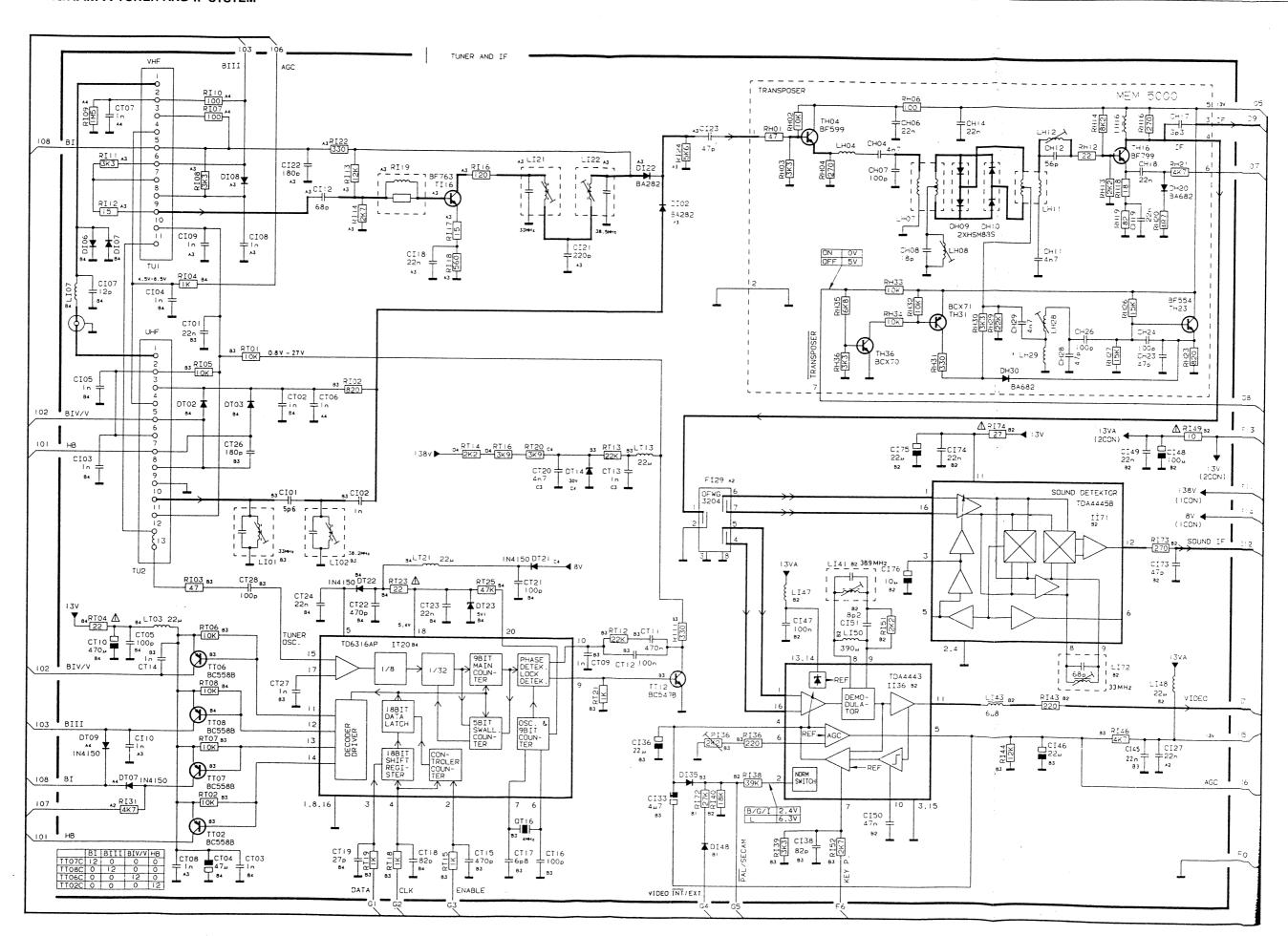


DIAGRAM B IF SYSTEM B/G/I/L

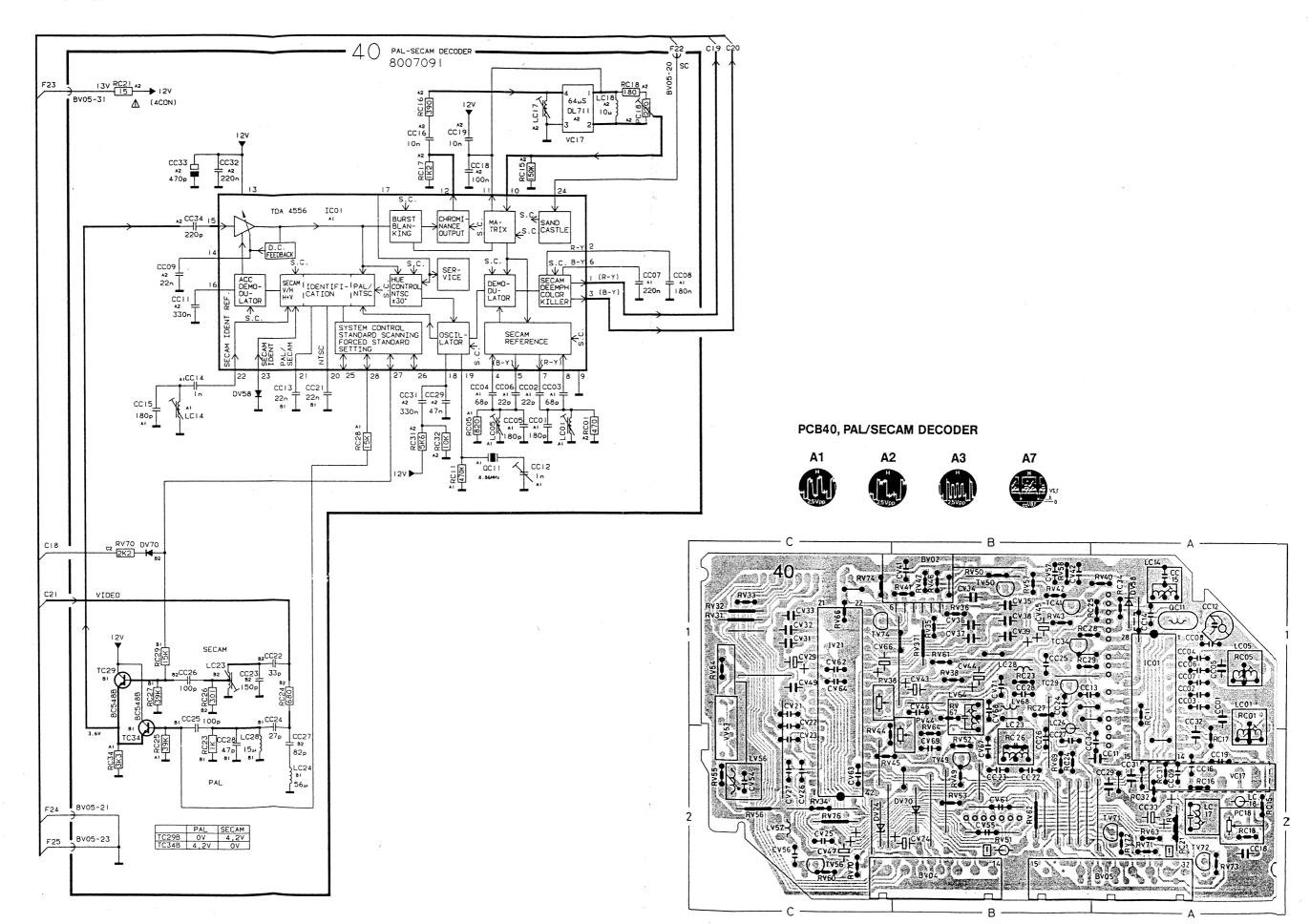


DIAGRAM C PAL/SECAM DECODER, VIDEO OUTPUT

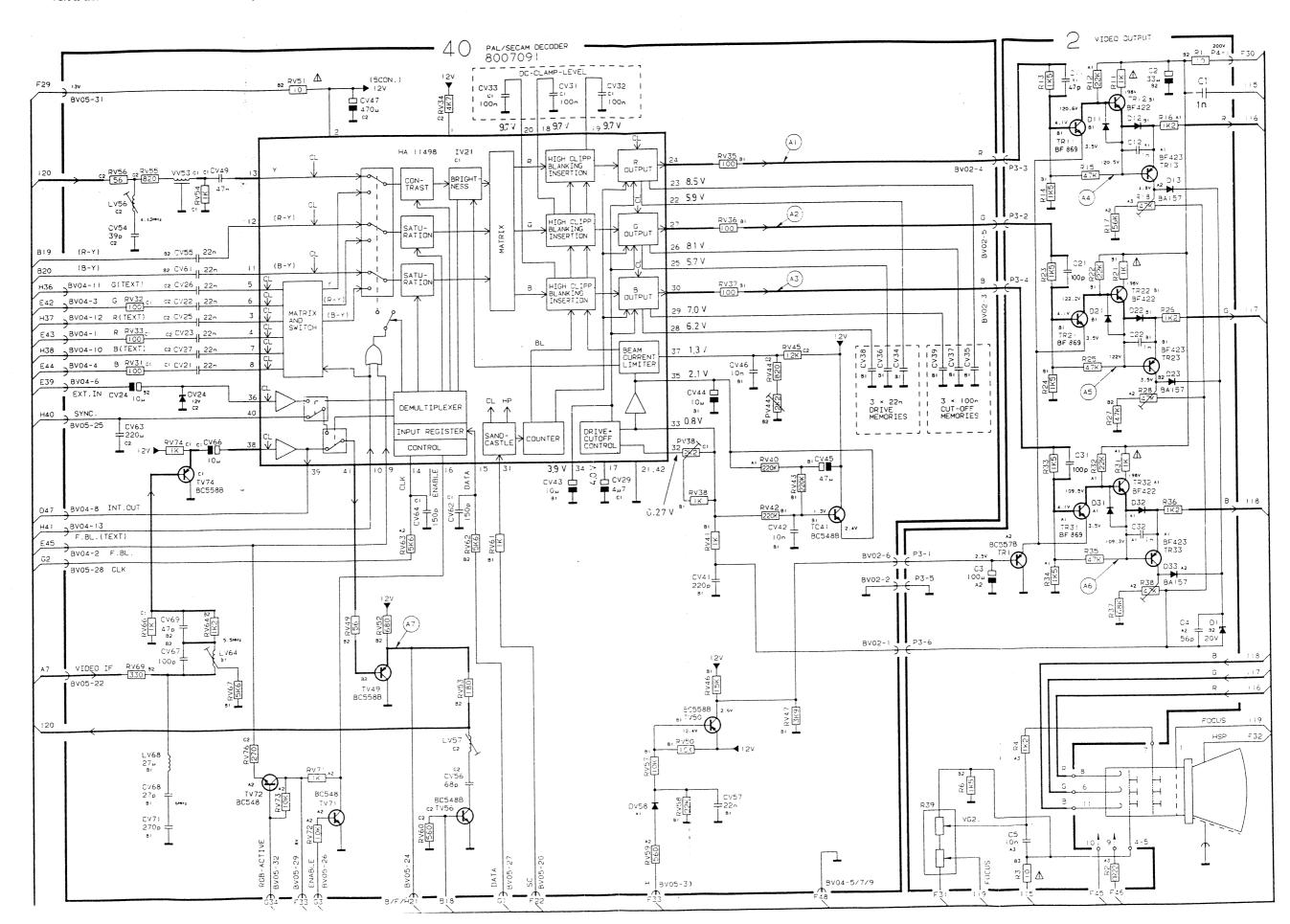


DIAGRAM D STEREO DECODER, SOUND CONTROLS

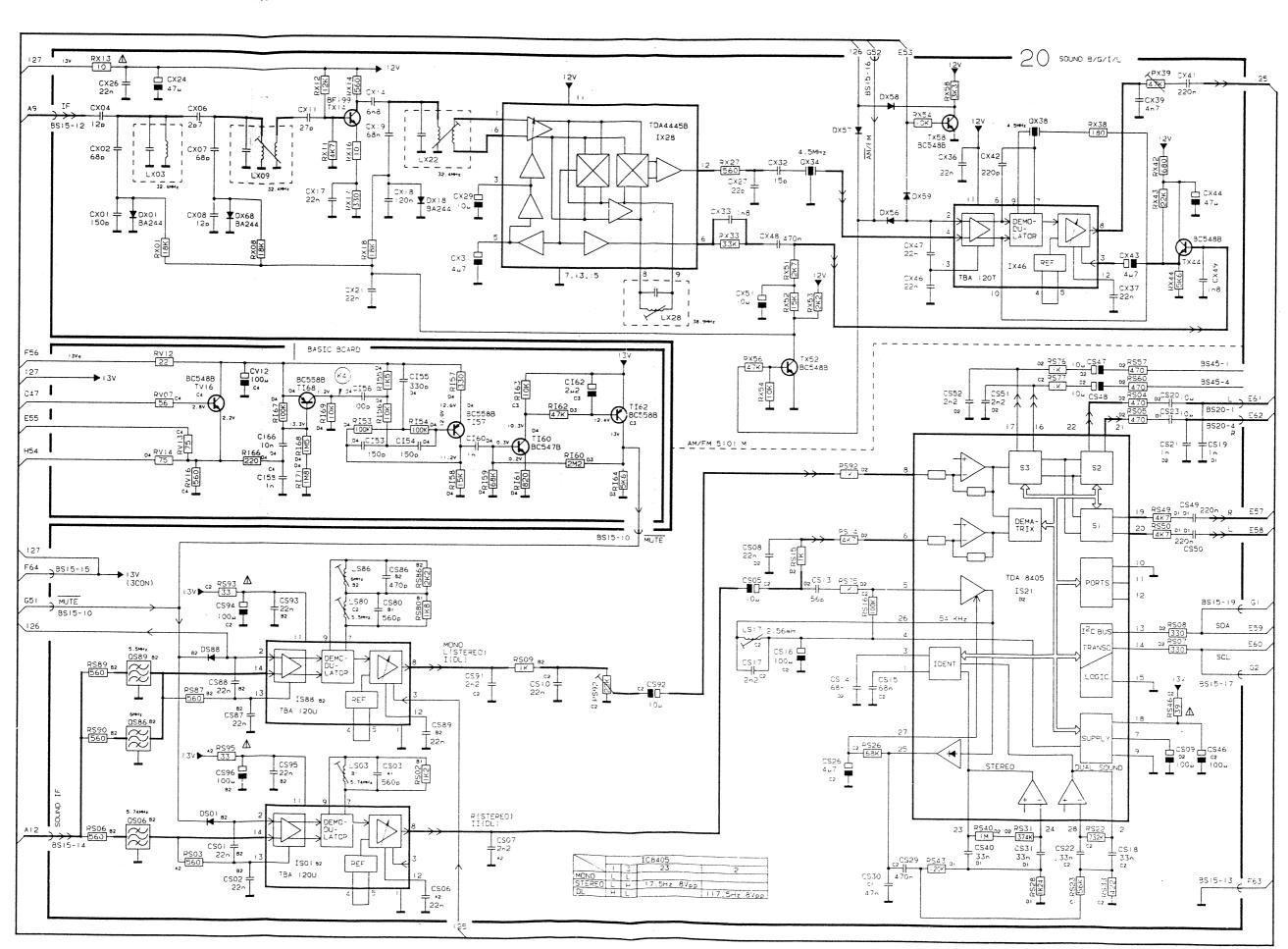


DIAGRAM E AF-AMPLIFIER, LINK INTERFACE A/V CONNECTIONS

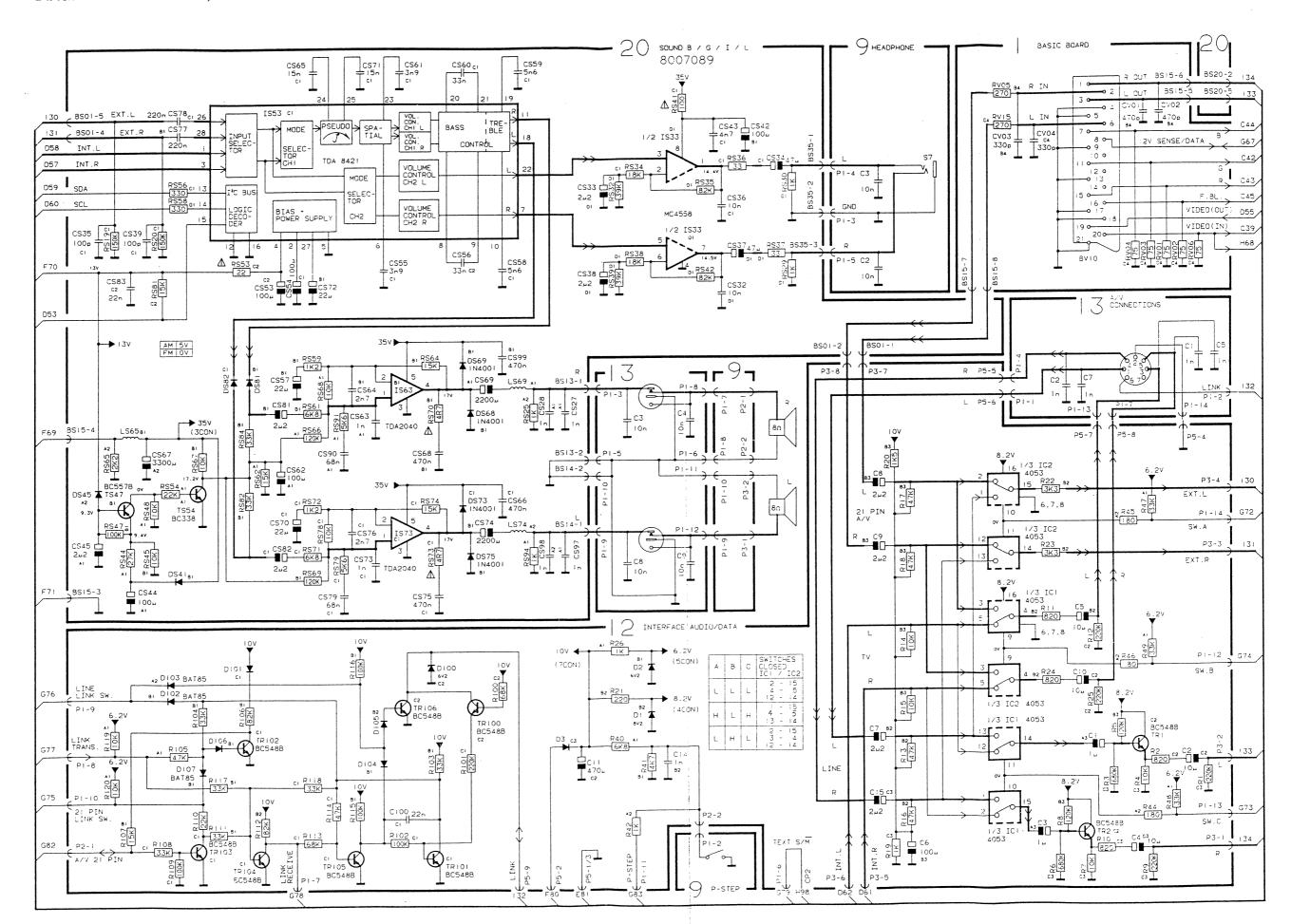


DIAGRAM F POWER SUPPLY, DEFLECTION

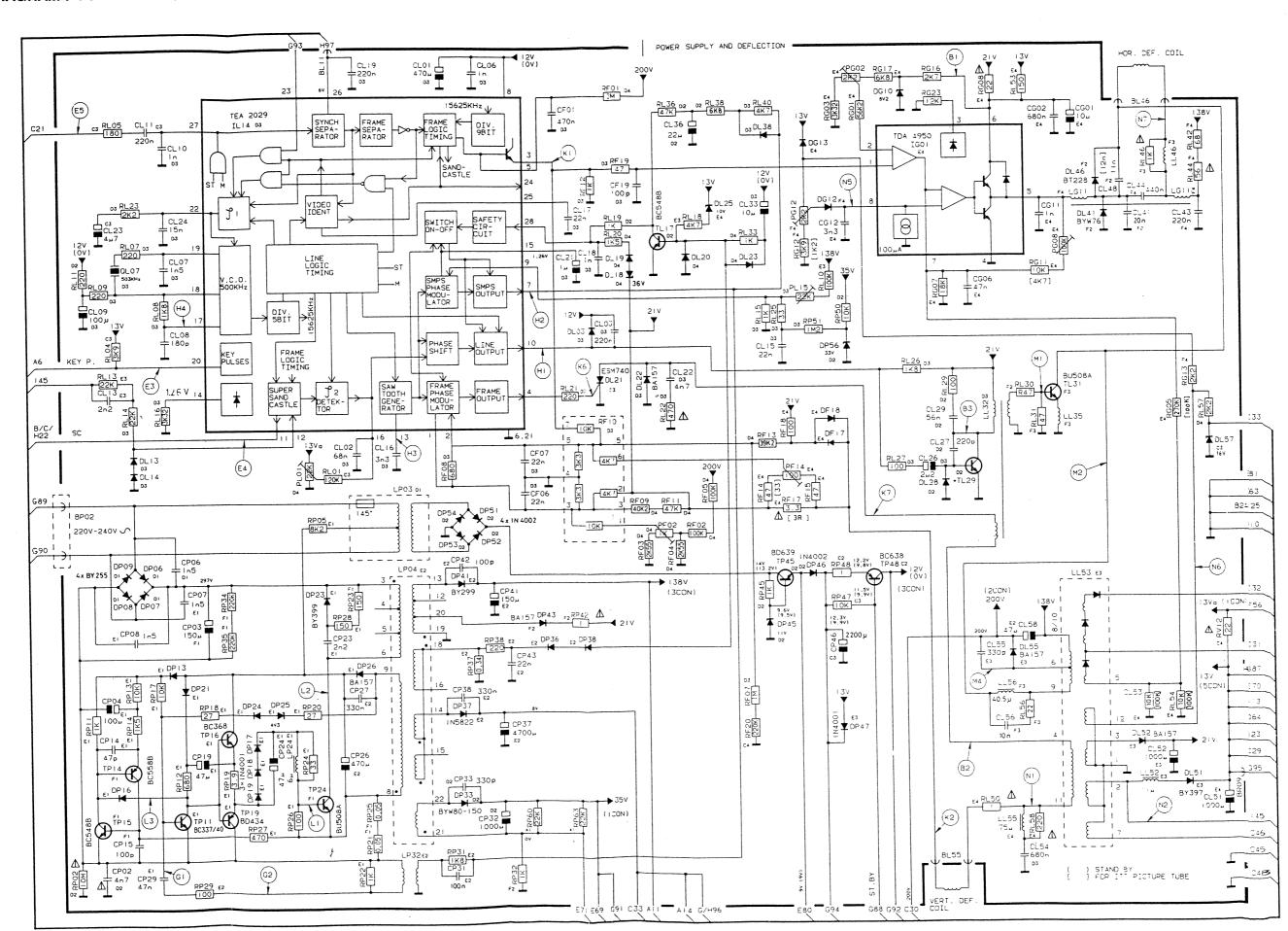


DIAGRAM G IR-RECEIVER, CONTROL, MAINS SWITCH

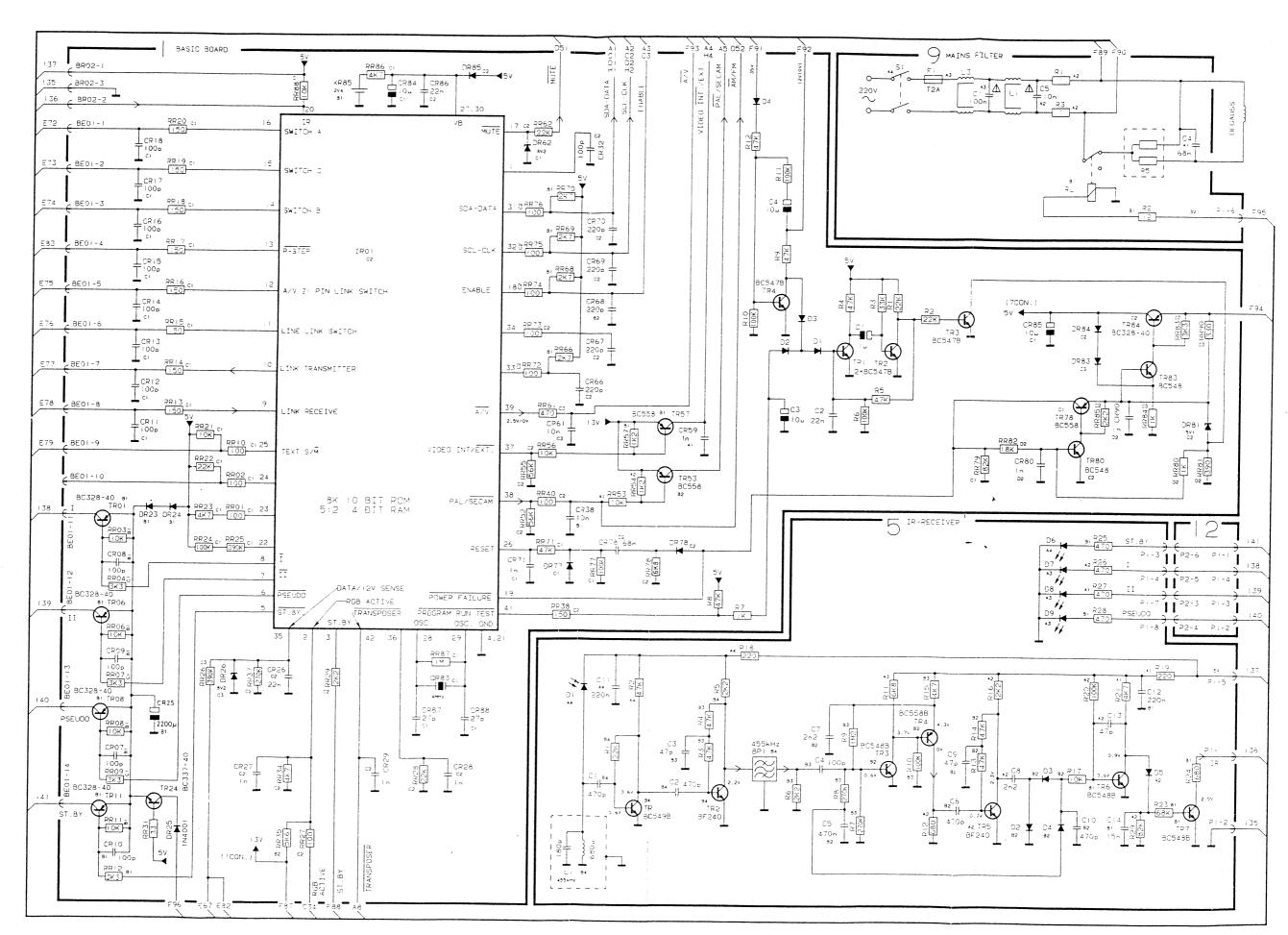
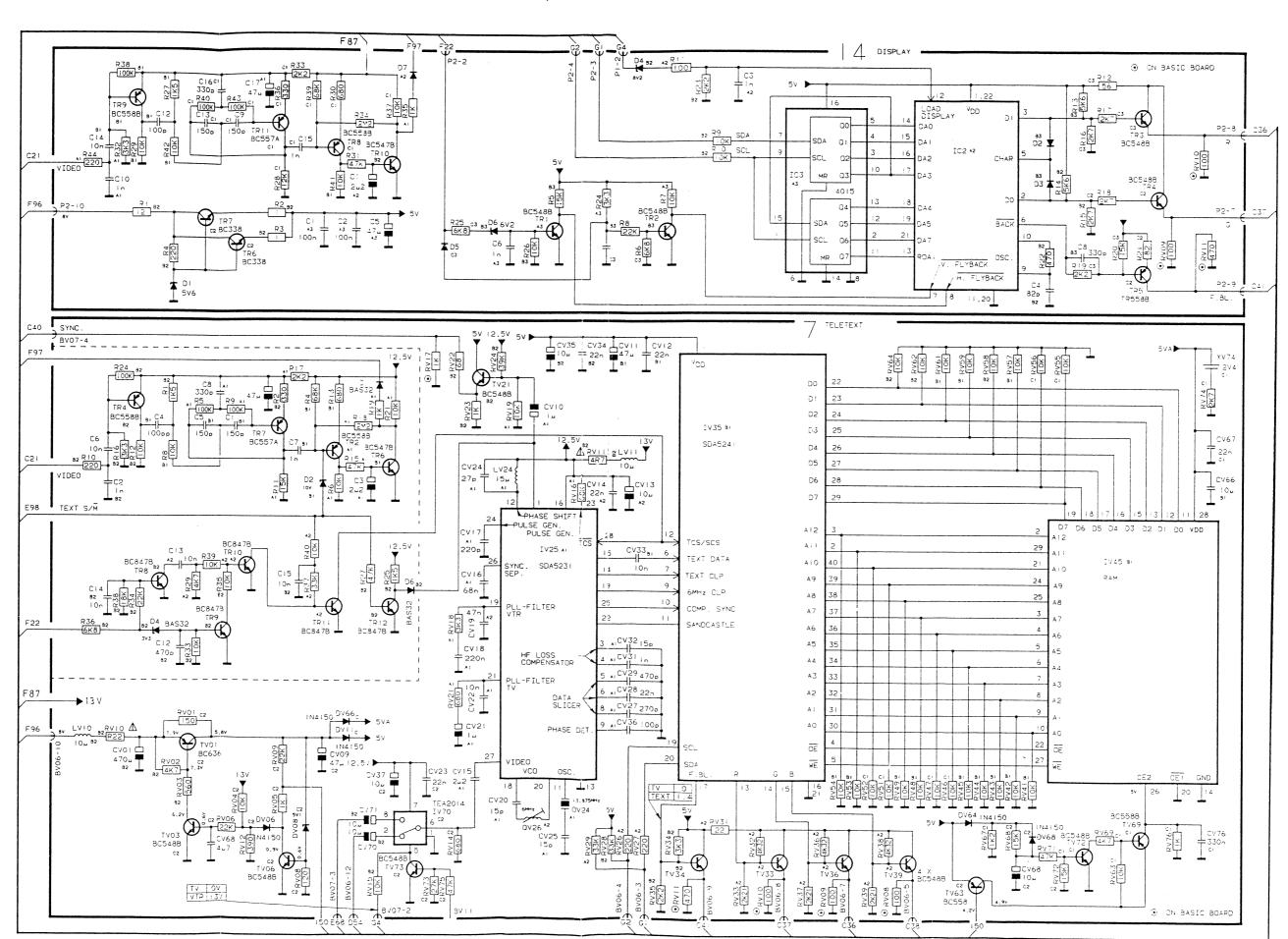
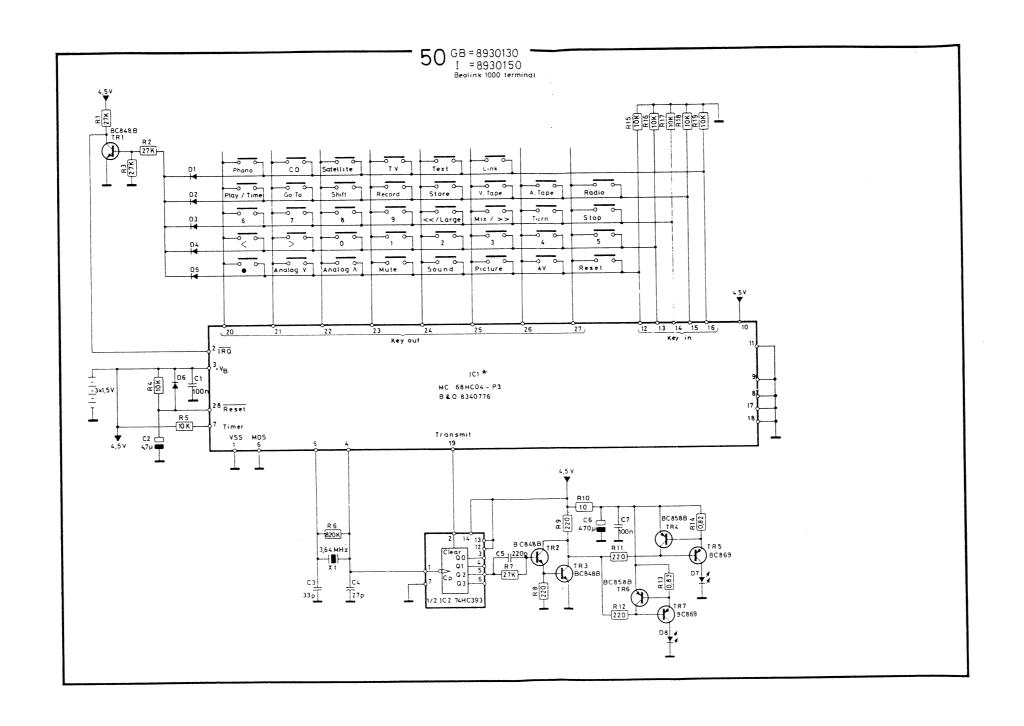
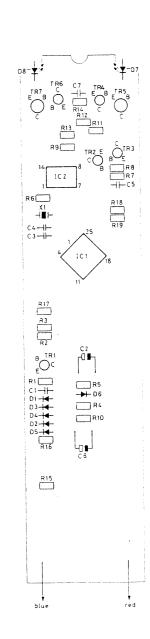


DIAGRAM H TELETEXT DECODER, DISPLAY (PCB14 can be in set only if there is no teletext decoder)



BEOLINK 1000 TERMINAL





3-1 3-1

LIST OF ELECTRICAL PARTS

| 17 | 20 | 32 | 39 | 58 | 136 | 202 | 208 |
|-----------------------------------------|----------|-----------------|------------|-------|-----|--------|--------------|
| 8 • • • • • • • • • • • • • • • • • • • | E B | ☐ ∏ E C B | © ∃ C E | C & . | | SO CAG | <u>A_0_c</u> |
| 209 | 215 | 217 | 218 | 221 | | | |
| <u></u> | <u>^</u> | A C violet | <u></u> | -()- | | | |

Resistors not referred to are standard, see page 3-12.

PCB 1, 8053219 Basic Board f/ITT picture tube, see page 7-1 PCB 1, 8053272 Basic Board f/VC picture tube, see page 7-1

| IG01 | 8341199 136 ′ | TDA 8145 | | | |
|----------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------------------------------------------|
| II36 II71 | 8341107 136 TE 8341115 136 TE | | | | |
| IL14∆ | 8341108 136 TE | EA 2029 | | | |
| IR01△ △ | 8341123 136 HI 8341124 136 HI | | | | |
| IT20∆ | 8341109 136 TI | O 6316 B | | | |
| TI16 TI57* TI60 | | 7 763 C 558A C 547B | TI62 TI68 | 8320510 8320510 | 20 BC 558B 20 BC 558B |
| TL17 TL29* | 8320510 20 B0 8320797 17 B0 | C 558B C 639 | TL31* | 8320800 | 39 BU 508A |
| TP11 TP14 TP15 TP16 | 8320510 20 BC | C 337-40 C 558B C 548B C 368 | TP19 TP24* TP45 TP48 | 8320781 8320800 8320430 8320391 | 32 BD 434 39 BU 508A 17 BC 639 17 BC 638 |
| TR01 TR06 TR08 TR11 TR24 TR53 | 8320784 20 B0 8320784 20 B0 8320784 20 B0 8320595 20 B0 | C 328-40 C 328-40 C 328-40 C 328-40 C 337-40 C 558B | TR57 TR78 TR80 TR83 TR84 | | 20 BC 558B 20 BC 558B 20 BC 548B 20 BC 548B 20 BC 328-40 |
| TT02 TT06- TT08 | | C 558B C 558B | TT12 | 8320497 | 20 BC 547B |
| TV16 | 8320509 20 B | C 548B | | | |
| DF17 DF18 | 8300058 209 11 8300058 209 11 | | | | |
| DG10 DG12 DG13 | 8300173 209 Z 8300058 209 11 8300058 209 11 | N 4148 | | | |
| DI02 DI06- DI08 | 8300618 209 B 8300058 209 1 | | | | |
| DI22 DI35 DI48 | 8300618 209 B 8300058 209 11 8300058 209 11 | N 4148 | | | |

 $[\]boldsymbol{\Delta}$ indicates that static electricity may destroy the component.

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| DL03 DL06 DL13 DL14 DL18 DL19 DL20 DL21 DL22 DL23 | 8300058 209 1N 4148 8300058 209 1N 4148 8300058 209 1N 4148 8300058 209 1N 4148 8300350 209 ZPD 36V 8300058 209 1N 4148 8300058 209 1N 4148 8300488 202 ESM 740 8300518 217 BA 157 8300058 209 1N 4148 | DL25 DL28 DL38 DL41 DL46 DL51 DL52 DL55 DL57 | 8300181 218 BA 220 8300058 209 1N 4148 8300058 209 1N 4148 8300610 208 BYW 76 8300304 221 BY 228 8300611 209 BY 397 8300518 217 BA 157 8300518 217 BA 157 8300619 209 ZPD 16 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DP06- DP09 DP13 DP16 DP17- DP19 DP21 DP23 DP24 DP25 DP26 DP33 | 8300612 209 BY 255 8300058 209 1N 4148 8300058 209 1N 4148 8300023 209 1N 4002 8300518 217 BA 157 8300613 209 BY 399 8300058 209 1N 4148 8300620 209 ZPD 4.3V 2% 8300518 217 BA 157 8300614 221 BYW 80-150 | DP36 DP37 DP38 DP41 DP43 DP45 DP46 DP47 DP51- DP54 DP56 | 8300058 209 1N 4148 8300616 209 1N 5822 8300058 209 1N 4148 8300613 209 BY 399 8300518 217 BA 157 8300189 209 ZTK 11 8300023 209 1N 4002 8300023 209 1N 4002 8300023 209 1N 4002 8300727 209 ZPD 33V |
| DR23 DR24 DR25 DR26 DR62 | 8300058 209 1N 4148 8300058 209 1N 4148 8300023 209 1N 4002 8300173 209 ZPD 8.2V 8300173 209 ZPD 8.2V | DR77 DR78 DR81 DR83- DR85 | 8300058 209 1N 4148 8300058 209 1N 4148 8300479 209 ZPD 5.1V 8300058 209 1N 4148 |
| DT02 DT03 DT07 DT09 | 8300058 209 1N 4148 8300058 209 1N 4148 8300498 215 1N 4150 8300498 215 1N 4150 | DT14 DT21 DT22 DT23 | 8300210 209 ZPD 30V 8300498 215 1N 4150 8300498 215 1N 4150 8300479 209 ZPD 5.1V |
| RF01 RF03 RF04 RF09 RF10 | 5011615 3 MΩ 5% 1/2W 5020228 8.87 kΩ 1% 1/4W 5020212 4.02 kΩ 1% 1/4W 5021072 40.2 kΩ 1% 1/4W 5030031 Resistor network | RF13 RF17 | |
| RG01 RG03 | 5020362 56.2 kΩ 1% 1/4W 5020291 3.32 kΩ 1% 1/4W | RG08 | 5021061 22 Ω 5% 0.4W |
| RI19 RI49 RI53 | 5011613 Resistor w/coil 5021067 10 Ω 5% 0.3W 5020263 100 kΩ 1% 1/4W | RI54 RI56 RI74 | 5020263 100 kΩ 1% 1/4W 5020110 10 kΩ 1% 1/4W 5020462 27 Ω 5% 0.3W |
| RL10 RL16 RL22 RL29 RL30 RL42 RL44 | $5020263\ 100\ k\Omega\ 1\%\ 1/4W$ $5020291\ 3.32\ k\Omega\ 1\%\ 1/4W$ $5020738\ 470\ \Omega\ 5\%\ 0.3W$ $5020709\ 100\ \Omega\ 5\%\ 2W$ $5100203\ 0.47\ \Omega\ 10\%\ 2W$ $5020547\ 68\ \Omega\ 5\%\ 2W$ $5021062\ 56\ \Omega\ 5\%\ 0.3W$ | RL46 RL50 RL53 RL56 RL57 RL58 | 5021063 1 kΩ 10% 0.5W 5020755 1 Ω 10% 0.3W 5100357 150 Ω 5% 2W 5020543 22 Ω 5% 2W 5011034 2.2 kΩ 5% 1/2W 5021065 220 Ω 10% 0.5W |
| RP02 RP05 RP19 RP21 RP23 | 5021098 10 MΩ 5% 1W 5104023 8.2 kΩ 5% 3W 5100358 3.9 Ω 5% 3W 5100359 0.05 Ω 5100360 150 Ω 5% 7W | RP25 RP28 RP37 RP42 | 5100359 0.05 Ω 5100360 150 Ω 5% 7W 5100362 0.034 Ω 5021064 1 Ω 10% 0.3W |
| RT04 RT14 RT16 | 5021068 22 Ω 5% 0.3W 5011749 3.9 kΩ 5% 1W 5011749 3.9 kΩ 5% 1W | RT20 RT23 | 5002028 2.2 kΩ 10% 1 W 5021066 22 Ω 10% 0.3 W |
| RV12 | 5021068 22 Ω 5% 0.3W | | |
| PF02 | 5370372 1 kΩ 20% | PF14 | 5370306 47 Ω 20% |
| PG02 PG08 | 5370308 2.2 kΩ 20% 5370310 100 kΩ 20% | PG12 | 5370308 2.2 kΩ 20% |
| P136 | 5370376 2.2 kΩ 20% | | |
| PL01 | 5370377 22 kΩ 20% | PL15 | 5370378 22 kΩ 20% |

^{*} Specially selected or adapted sample.

| CF01 CF06 | 4130438 470 nF 5% 63V 4130193 22 nF 20% 63V | CF07 CF19 | 4130193 22 nF 20% 63V 4000176 100 pF 5% 63V |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CG01 CG02 CG06 | 4200561 10 µF 20% 50V 4130311 680 nF 10% 63V 4130235 47 nF 20% 63V | CG11 CG12 | 4010105 1 nF 10% 63V 4100238 3.3 nF 5% 63V |
| CI01 CI02- CI05 CI07 CI08- CI10 CI12 CI18 CI21 | 4000086 5.6 pF ±0.25 pF 63V 4010027 1 nF 10% 63V 4000177 12 pF 5% 63V 4010027 1 nF 10% 63V 4000215 68 pF 5% 63V 4130193 22 nF 20% 63V 4000160 220 pF 5% 63V | CI47 CI48 CI49 CI50 CI51 CI53 CI54 CI55 CI56 | 4130230 100 nF 20% 63V 4200129 100 μF -20+50% 16V 4130193 22 nF 20% 63V 4130235 47 nF 20% 63V 4000363 47 pF 2% 63V 4000135 150 pF 5% 63V 4000135 150 pF 5% 63V 4100228 330 pF 5% 63V 4000176 100 pF 5% 63V |
| CI22 CI23 CI27 CI33 CI36 CI38 CI45 CI46 | 4100244 180 pF 5% 63V 4000057 47 pF 5% 63V 4130193 22 nF 20% 63V 4200515 4.7 µF 20% 25V 4200508 22 µF 20% 25V 4000200 82 pF 5% 63V 4130193 22 nF 20% 63V 4200508 22 µF 20% 25V | CI58 CI60 CI62 CI66 CI73 CI74 CI75 CI76 | 4010027 1 nF 10% 63V 4010027 1 nF 10% 63V 4200517 2.2 μF 20% 50V 4010106 10 nF -20+80% 40V 4000057 47 pF 5% 63V 4130193 22 nF 20% 63V 4200544 22 μF 20% 16V 4200561 10 μF 20% 50V |
| CL01 CL02 CL03 CL06 CL07 CL08 CL09 CL10 CL11 CL13 CL15 CL15 | 4200395 470 μF -10+50% 16V 4130264 68 nF 10% 63V 4000160 220 pF 5% 63V 4010027 1 nF 10% 63V 4100210 1.5 nF 5% 63V 4100244 180 pF 5% 63V 4200129 100 μF -20+50% 16V 4010027 1 nF 10% 63V 4130226 220 nF 10% 63V 4010188 2.2 nF 10% 63V 4130216 22 nF 10% 63V 4130440 3.3 nF 2.5% | CL26 CL27 CL29 CL33 CL36 CL41 CL43 CL44 CL48 | 4200517 2.2 μF 20% 50V 4000160 220 pF 5% 63V 4130382 56 nF 5% 63V 4200510 10 μF 20% 16V 4200488 22 μF 20% 25V 4130439 20 nF 5% 400V 4130437 220 nF 5% 250V 4130436 440 nF 5% 250V 4130435 11 nF 3.5% 1500V f/VC picture tube 4130429 12 nF 2.5% 1500V f/ITT picture tube |
| CL17 CL18 CL19 CL21 CL22 CL23 CL24 | 4130193 22 nF 20% 63V 4010027 1 nF 10% 63V 4130226 220 nF 10% 63V 4200426 1 µF 20% 50V 4010141 4.7 nF 10% 500V 4200515 4.7 µF 20% 25V 4130315 15 nF 5% 63V | CL51 CL52 CL54 CL55 CL56 CL58 | 4200512 1000 μF 16V 4200622 1000 μF 40V 4130163 680 nF 10% 250V 4130434 330 pF 1000V 4130441 10 nF 4200584 47 μF 20% 100V |
| CP02 CP03 CP04 CP06 CP07 CP08 CP14 CP15 CP19 CP23 CP24 CP26 | 4020012 4.7 nF 20% 400V 4200609 150 μF -20+50% 385V 4200403 100 μF -10+100% 25V 4130433 1.5 nF 1 kV 4130432 1.5 nF 1 kV 4130432 1.5 nF 1 kV 4000057 47 pF 5% 63V 4000176 100 pF 5% 63V 4200516 47 μF 20% 16V 4130431 2.2 nF 20% 1 kV 4200584 47 μF 20% 100V 4200704 470 μF 20% 25V | CP27 CP29 CP31 CP32 CP33 CP37 CP38 CP41 CP42 CP43 CP46 | 4010062 330 pF 10% 63V 4130235 47 nF 20% 63V 4130230 100 nF 20% 63V 4200810 1000 μF 63V 4130434 330 pF 1000V 4200811 4700 μF 25V 4010062 330 pF 10% 63V 4200812 150 μF 150V 4130430 100 pF 1 kV 4130193 22 nF 20% 63V 4200813 2200 μF 16V |
| CR07- CR18 CR25 CR26 CR27- CR29 CR32 CR38 CR59 CR61 CR66- CR70 | 4000176 100 pF 5% 63V 4200813 2200 μF 16V 4130193 22 nF 20% 63V 4010027 1 nF 10% 63V 4000176 100 pF 5% 63V 4130220 10 nF 5% 63V 4010027 1 nF 10% 63V 4130220 10 nF 5% 63V 4130220 10 nF 5% 63V 4000160 220 pF 5% 63V | CR71 CR78 CR80 CR84 CR85 CR86 CR87 CR88 CR90 | 4010027 1 nF 10% 63V 4130290 68 nF 20% 63V 4010027 1 nF 10% 63V 4200561 10 μF 20% 50V 4200510 10 μF 20% 16V 4130193 22 nF 20% 63V 4000244 27 pF 5% 50V 4130193 22 nF 20% 63V |

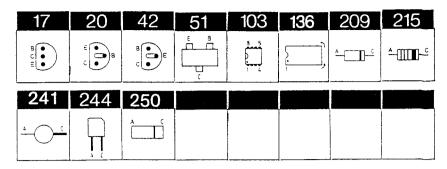
| 17 | 20 | 44 | 49 | 209 | 217 | |
|-----------------------------------------|----|------------|-------|-----|-----|--|
| B • • • • • • • • • • • • • • • • • • • | E | ○ E C 3 | E 0 0 | A | A C | |

Resistors not referred to are standard, see page 3-12.

| CT01 | 4130193 22 nF 20% 63V | CT15 | 4010024 470 pF 10% 63V |
|--------------|------------------------------------------------------|--------------|-------------------------------------------------|
| CT02 | 4010027 1 nF 10% 63V | CT16 | 4000176 100 pF 5% 63V |
| CT03 | 4010027 1 nF 10% 63V | CT17 | 4000120 6.8 pF ±0.25 pF 63V |
| CT04 | 4200516 47 μF 20% 16V | CT18 | 4000200 82 pF 5% 63V |
| CT05 | 4000176 100 pF 5% 63V | CT19 | 4000244 27 pF 5% 50V |
| CT06- | 4010027 1 nF 10% 63V | CT20 | 4010063 4.7 nF 10% 63V |
| CT08 CT10 | 4200600 470 µF 20% 16V | CT21 CT22 | 4000176 100 pF 5% 63V 4010024 470 pF 10% 63V |
| CT11 | 4130234 470 nF 10% 63V | CT24 | 4130193 22 nF 20% 63V |
| CT12 | 4130306 100 nF 10% 63V | CT26 | 4100244 180 pF 5% 63V |
| CT13 | 4010027 1 nF 10% 63V | CT27 | 4010027 1 nF 10% 63V |
| CT14 | 4010027 1 nF 10% 63V | CT28 | 4000176 100 pF 5% 63V |
| CV01 | 4010024 470 pF 10% 63V | CV04 | 4010062 330 pF 10% 63V |
| CV02 | 4010024 470 pF 10% 63V | CV12 | 4200403 100 μF -10÷100% 25V |
| CV03 | 4010062 330 pF 10% 63V | | |
| LG11 | 8022285 Coil | | |
| LIOI | 8022286 Coil 36 MHz | LI43 | 8020595 Coil 6.8 µН |
| LI02 | 8022287 Coil 36 MHz | LI48 | 8022290 Coil 22 µH |
| LI21 | 8022288 Coil 36 MHz | LI50 | 8022291 Coil 390 μH |
| LI22 LI41 | 8022289 Coil 36 MHz 8022293 Coil 38.9 MHz | LI72 | 8022293 Coil 38.9 MHz |
| Li4i | - 0022293 COH 38.9 MHZ | | |
| LL32 | 8022292 Coil | LL53 | 8014087 Transformer |
| LL35 | 8022311 Coil 4 μH | LL54 | 6710018 Ferrite core |
| LL46 | 8022312 Coil | LL55 | 8022314 Coil 75 μH |
| LL52 | 8022313 Coil 11 μH | LL56 | 8022315 Coil 40 μH |
| LP03 | 8013418 Transformer | LP39 | 6710019 Ferrite core |
| LP04 LP24 | 8014088 Transformer | LP40 | 6710019 Ferrite core |
| LP32 | 8022316 Coil 6 µH 8014086 Transformer | LP43 LP44 | 6710019 Ferrite core 6710019 Ferrite core |
| | | LITT | oriouts rennie core |
| LT03 LT13 | 8022294 Coil 22 μH 8022294 Coil 22 μH | LT21 | 8022294 Coil 22 μH |
| | сон 22 µп | | |
| FI29 | 8030617 Filter OFWG 3204 8030081 Filter OFWG 3201 | | |
| ——— DL07 | 8030084 Cer. res. 503 kHz | | |
| | | | |
| QR83 | 8030149 Cer. res. 4 MHz | | |
| QT16 | 8090079 Crystal 4 MHz | | |
| TU1 TU2 | 8050115 VHF tuner 8050116 UHF tuner | | |
| | | | |
| X R85 | 8700024 Battery 2.4V | | |
| BE01 | 7220551 Plug 14 pol | | |
| BL04- | 7500013 Contact pin | BL46 | 7500013 Contact pin |
| BL09 | • | BL55 | 7500013 Contact pin |
| 3L11 | 7500013 Contact pin | | |
| BP02 BP06 | 7500013 Contact pin 7500013 Contact pin | BP10 BP11 | 7500013 Contact pin |
| 00 10 | 1500015 Contact pin | Brii | 7500013 Contact pin |

| | BR02 BR03- BR10 | 7220462 Plug 3/3 pol 7500013 Contact pin | BR13 | 7500013 Contact pin |
|-----------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | BS15 | 7500013 Contact pin | | |
| | BV01 BV04 BV05 BV06 | 7220462 Plug 3/3 pol 7220742 Plug 14 pol 7220741 Plug 18 pol 7220740 Plug 13 pol | BV07 BV10 BV11- BV13 | 7220739 Plug 4 pol 7210750 Socket 21 pol scart 7500013 Contact pin |
| | | 6275749 Mains cable w/holder 6270416 Focuscable | | |
| Watch dog | TR1- TR4 | 8320497 20 BC 547B | | |
| | D1D4 | 8300058 209 1N 4148 | | |
| | C1 C2 C3-C4 | 4200512 1 μF 20% 50V 4010107 22 nF -20+80% 40V 4200510 10 μF 20% 16V | | |
| PCB 2, 8003823 Video Output | TR1 TR11 TR12 TR13* TR21 | 8320503 20 BC 557B 8320440 44 BF 869 8320505 49 BF 422 8320631 17 BF 423 8320440 44 BF 869 | TR22 TR23* TR31 TR32 TR33* | 8320505 |
| | D1 D11-12 D13 D21-22 | 8300194 209 Z20V 5% 8300058 209 1N 4148 8300533 217 BA 157 8300058 209 1N 4148 | D23 D31-32 D33 | 8300533 217 BA 157 8300058 209 1N 4148 8300533 217 BA 157 |
| | R2 R3 R11 R12 R15 R18 R21 R22 | 5020812 0.22 Ω 10% 0.4W 5020495 10 Ω 10% 1W 5020758 1 k Ω 5% 0.3W 5020697 22 k Ω 5% 1W 5020774 47 k Ω 5% 1W 5370350 47 k Ω 20% 0.1W 5020758 1 k Ω 5% 0.3W 5020697 22 k Ω 5% 1W | R25 R28 R31 R32 R35 R38 R39 | 5020774 47 kΩ 5% 1W 5370350 47 kΩ 20% 0.1W 5020758 1 kΩ 5% 0.3W 5020697 22 kΩ 5% 1W 5020774 47 kΩ 5% 1W 5370350 47 kΩ 20% 0.1W 5390027 Focus + G2 |
| | C1 C2 C3 C4 C5 | 4010123 1 nF 10% 500V 4200626 33 μF 20% 250V 4200628 100 μF 20% 16V 4000155 56 pF 5% 63V 4010165 10 nF 20% 2kV 4000362 56 pF 5% 63V | C12 C21 C22 C31 C32 | 4010105 1 nF 10% 63V 4000204 100 pF 5% 63V 4010105 1 nF 10% 63V 4000204 100 pF 5% 63V 4010105 1 nF 10% 63V |
| | S1 | 7200067 Socket/picture tube 7210635 Socket/focus | | |
| | P1 P2 P3 P4 | 7220428 Plug 6/6 pol 7210273 Socket 6/6 pol 7220624 Plug 6 pol 7220625 Plug 3 pol | | |
| | CP1 CP2 | 6031925 Lead to ground wire 6031926 Lead to chassis | | |

^{*} Specially selected or adapted sample.



Resistors not referred to are standard, see page 3-12.

| PCB | 5, | 8003829 | IR-Receiver |
|-----|----|---------|-------------|
| | | | |

| Resiste | ors not referred to are stand | lard, see j | page 3-12. |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------|
| TR1 TR2 TR3 | 8320627 20 BC 549B 8320625 42 BF 240 8320509 20 BC 548B | TR4 TR5 TR67 | 8320510 20 BC 558B 8320625 42 BF 240 8320509 20 BC 548B |
| | 8330145 244 BPW 82 8300058 209 1N 4148 8330135 241 GL-1 HD202 | | |
| C1-2 C3 C4 C5 C6 C7-8 | 4010128 470 pF 10% 63V 4000193 47 pF 5% 63V 4000139 100 pF 5% 63V 4130313 470 nF 20% 63V 4010128 470 pF 10% 63V 4010103 2.2 nF 10% 63V | C9 C10 C11-12 C13 C14 | 4010128 470 pF 10% 63V 4130233 220 nF 20% 63V 4000193 47 pF 5% 63V |
| L1 | 8020562 Coil 455 kHz | | |
| BP1 | 8030056 455 kHz ±1 kHz | | |
| P1 | 7220632 Plug 8 pol | | |
| | 8340720 136 SDA 5231 8341068 136 SAA 5243 | IV45∆ IV70 | 8340885 136 HM 6264 LP-15 8340767 103 TEA 2014 |
| TR2 TR4 TR6 | 8320510 20 BC 558B 8320510 20 BC 558B 8320497 20 BC 547B | | 8320202 20 BC 557A 8320755 51 BC 847B |
| TVOI | 9220622 17 DC 626 | TV26 | 9220509 20 BC 548B |

PCB 7, 8003914 Teletext

| RV11 | 5020657 4.7 | Ω 10% 0.35W | | | |
|------|--------------|---------------|--------|------------------|-------------------|
| RV10 | 5020812 0.23 | 2 Ω 10% 0.4W | | | |
| DV11 | 8300498 21 | 5 1N 4150 | DV68 | 8300498 2 | 15 1N 4150 |
| DV08 | 8300479 209 | 9 ZPD 5.1V 2% | DV66 | 8300498 2 | 15 1N 4150 |
| DV06 | 8300498 21 | 5 1N 4150 | DV64 | 8300058 2 | 09 1N 4148 |
| D2 | 8300605 250 | O Z 10V 5% | D6 | 8300482 2 | 50 LL 4148 |
| D1 | 8300482 250 |) LL 4148 | D4 | 8300607 2 | 50 Z 3.3V 5% |
| | | | | | |
| TV34 | 8320509 20 | BC 548B | TV73 | 8320509 | 20 BC 548B |
| TV33 | 8320509 20 | BC 548B | TV72 | 8320509 | 20 BC 548B |
| TV21 | 8320509 20 | BC 548B | TV69 | 8320510 | 20 BC 558B |
| TV06 | 8320509 20 | BC 548B | TV63 | 8320510 | 20 BC 558B |
| TV03 | 8320509 20 | BC 548B | TV39 | 8320509 | 20 BC 548B |
| TV01 | 8320632 17 | 7 BC 636 | TV36 | 8320509 | 20 BC 548B |
| TR6 | 8320497 20 | BC 547B | | | |
| TR4 | | BC 558B | TR8-12 | 8320755 | 51 BC 847B |
| ΓR2 | 8320510 20 | BC 558B | TR7 | | 20 BC 557A |

| C1 C2 C3 C4 C5 C6 | 4000135 150 pF 5% 63V 4000342 1 nF 10% 50V 4200517 2.2 μF 20% 50V 4000243 100 pF 5% 63V 4000135 150 pF 5% 63V 4010142 10 nF -20+80% 40V | C7 C8 C9 C12 C13-15 | 4010105 1 nF 10% 63V 4010118 330 pF 10% 63V 4200516 47 µF 20% 16V 4000236 470 pF 10% 50V 4010041 10 nF -20+80% 40V |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CV01 CV06 CV09 CV10 CV11 CV12 CV13 CV14 CV15 CV16 CV17 CV18 CV20 CV20 CV20 CV21 CV22 | 4200395 470 μF -10+50% 16V 4200544 22 μF 20% 16V 4200483 47 μF 20% 16V 4200380 1 μF -20+50% 63V 4200483 47 μF 20% 16V 4130193 22 nF 20% 63V 4200487 10 μF 20% 50V 4130193 22 nF 20% 63V 4201069 2.2 μF 20% 35V 4130270 68 nF 5% 63V 4000160 220 pF 5% 63V 4130308 220 nF 10% 63V 4130223 47 nF 10% 63V 400030 15 pF 5% 63V 4200519 1 μF 20% 35V 4010106 10 nF -10+80% 40V 4130193 22 nF 20% 63V 4000244 27 pF 5% 50V | CV25 CV27 CV28 CV29 CV31 CV32 CV33 CV34 CV35 CV36 CV37 CV66 CV67 CV68 CV70 CV71 | 4000133 15 pF 5% 63V 4010081 270 pF 10% 63V 4130193 22 nF 20% 63V 4010024 470 pF 10% 63V 4010027 1 nF 10% 63V 4000133 15 pF 5% 63V 4130220 10 nF 5% 63V 4130193 22 nF 20% 63V 4200510 10 μF 20% 16V 4000176 100 pF 5% 50V 4200510 10 μF 20% 16V 4200510 10 μF 20% 16V 4200510 10 μF 20% 16V 4130193 22 nF 20% 63V 4200484 10 μF 20% 25V 4200510 10 μF 20% 16V 4200510 10 μF 20% 16V |
| LV10 LV11 LV24 | 8020582 Coil 10 μH 8020582 Coil 10 μH 8020554 Coil 15 μH | | |
| QV24 QV26 | 8090041 Crystal 13.87 MHz 8020930 Coil 35 μH | | |
| XV74 | 8700018 Battery 2.4V | | |
| BV06 BV07 | 7210627 Socket 13 pol 7210628 Socket 4 pol | BV11 | 7500013 Contact pin |
| R1 R2 R5 | 5011209 10 MΩ 5% 1/2W 5020877 12 Ω 10% 0.25W 5230009 PTC 40 + 1000 Ω 265V | | |
| C1 C2-3 C4 | 4130279 100 nF 20% 275V 4010041 10 nF -20+80% 40V 4130100 68 nF 10% 250V | | |
| L1-2 L3 | 8022268 Coil 2 x 36mH 8022269 Coil 2 x 0.4mH | | |

7600090 Relay 12V

6600009 Fuse 2A-T/250V 7200066 Fuse holder

7400318 Switch 1 pol

7220630 Plug 10 pol

7220424 Plug 2/2 pol 7210386 Jack socket

RL1

S6

P2-3

PCB 9, 8003824 P-Step/ Mains Filter PCB 9, 8003905 P-Step/ Mains Filter Australia

3-7

Bang & Olufsen

| Resistors not referred to are standard, see page 3-12. C1-2 | 20 | 101 | 103 | 120 | 136 | 138 | 143 | 200 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|-------------------------|-----------|----------|-----------|-----------------|--------|
| C1-2 8340340 101 CD 4053 BCN R1-2 8320509 20 BC 548B R100- 8320509 20 BC 548B R100- 8300201 209 Z6.2V 5% D103 8300544 209 BAT 85 D104 8300201 209 Z6.2V 5% D108 8300201 209 Z6.2V 5% D108 8300201 209 Z6.2V 5% D109 S300201 209 Z6.2V 5% D101 8300058 209 IN 4148 D107 830058 209 IN 4148 D107 8300544 209 BAT 85 D108 8300201 209 Z6.2V 5% D109 S300544 209 BAT 85 D101 8300058 209 IN 4148 D107 8300544 209 BAT 85 D108 8300201 209 Z6.2V 5% D109 S300544 209 BAT 85 D101 8300058 209 IN 4148 D107 8300544 209 BAT 85 D108 S300544 209 BAT 85 D109 S30058 209 IN 4148 D107 S300544 209 BAT 85 D108 S300544 209 BAT 85 D108 S300544 209 BAT 85 D109 S300544 209 BAT 85 D109 S30058 209 IN 4148 D107 S300544 209 BAT 85 D108 S300544 209 BAT 85 D108 S300544 209 BAT 85 D109 S300554 209 BAT 85 D109 S300564 209 BAT 85 D109 S300564 209 BAT 85 D109 S300568 209 BAT 81 D109 | -0 | 16 9 | 8 5 | 14 8 | 100 | 100 | | 200 |
| C1-2 8340340 101 CD 4053 BCN R1-2 8320509 20 BC 548B R100- 8320509 20 BC 548B 106 R100- 8320509 20 BC 548B 107 R11-2 8300173 209 Z8.2V 5% 108 R12 8300173 209 Z8.2V 5% 109 R13 8300201 209 Z6.2V 5% 100 R300201 209 Z6.2V 5% 100 R300058 209 1N 4148 1010 R300058 209 1N 4148 1010 R300058 209 1N 4148 1010 R300054 209 BAT 85 11 4200512 1 μF 20% 50V 12 4200510 1 μF 20% 16V 13 4200512 1 μF 20% 16V 13 4200512 1 μF 20% 16V 14 4200517 2.2 μF 20% 50V 14 410105 1 nF 10% 63V 17 722051 Plug 14 pol 17 722051 Plug 14 pol 17 7220318 Plug 6 pol 18 19 7220318 Plug 6 pol 19 7220318 Plug 6 pol 10 11 7220439 Plug 14/14 pol 11 12 13 14 15 16 17 17 18 18 18 18 18 18 18 18 | | | | | |],] | | |
| C1-2 8340340 101 CD 4053 BCN R1-2 8320509 20 BC 548B R100- 8320509 20 BC 548B R100- 8320509 20 BC 548B R1010- 8320512 209 Z62V 5% R106 R1010 8320058 209 1N 4148 R1010 R10 | | | | | | 2 12 | 2345 | |
| R1-2 8320509 20 BC 548B R100- 8320509 20 BC 548B R100- 8320509 20 BC 548B 11 8300173 209 Z8.2V 5% D103 8300544 209 BAT 85 12 8300201 209 Z6.2V 5% D103 8300544 209 BAT 85 13 8300058 209 1N 4148 D104- 8300058 209 1N 4148 1100 8300201 209 Z6.2V 5% 106 1101 8300058 209 1N 4148 D107 8300544 209 BAT 85 11 4200512 1 μF 20% 50V C10 4200510 10 μF 20% 16V 12 4200510 10 μF 20% 16V C11 4200395 470 μF -10 -50% 1 13 4200512 1μF 20% 50V C14 4010105 1 μF 10% 63V 14-5 4200510 10 μF 20% 16V C15 4200510 2 μF 20% 50V 14-5 4200510 10 μF 20% 16V C10 4130262 22 μF 20% 63V 15 4200517 2.2 μF 20% 50V 16 4200528 100 μF 20% 16V C100 4130262 22 μF 20% 63V 17 7220318 Plug 14 pol P3 7220319 Plug 8 pol P5 7220629 Plug 9 pol 18 4010041 10 μF -20+80% 40V 17 7220439 Plug 14/14 pol 19 7500013 Contact plug 11-8 4010041 10 μF -20+80% 40V 19 7220439 Plug 14/14 pol 10 8340175 101 CD 4015 CN 10 8340175 101 CD 4015 CN 11 8320509 20 BC 548B TR0 8320497 20 BC 557A 10 8300296 209 Z5.6V 2% D5 830058 209 1N 4148 10 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 10 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 10 5020701 12 Q 5% 1W 11 5020701 12 Q 5% 63V C10 4010105 1 μF 10% 63V C12 4000142 82 μF 5% 63V C12 4000135 150 μF 5% 63V C14 4000135 150 μF 5% 63V C15 4000135 150 μF 5% 63V C16 401015 1 μF 10% 63V C17 4030023 47 μF -20+80% 16V C15 401015 1 μF 10% 63V C16 401015 1 μF 10% 63V C17 4000024 100 μF 5% 63V C17 4000024 100 μF 5% 63V C17 4000024 100 μF 5% 63V C17 4000023 47 μF -20+80% 16V C15 401015 1 μF 10% 63V C16 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C17 4200726 47 μF 20% 16V C17 4200 | esisto | rs not rele | rred to a | re standi | aru, see | page 5-12 | • | |
| R100 | C1-2 | 8340340 10 | 1 CD 4053 | BEN | | | | |
| 22 | R100- | | | | | | | |
| 3300058 209 IN 4148 D104 8300058 209 IN 4148 D100 8300201 209 Z6.2V 5% D101 B300058 209 IN 4148 D107 8300544 209 BAT 85 D101 B300058 209 IN 4148 D107 8300544 209 BAT 85 D101 B300058 209 IN 4148 D107 8300544 209 BAT 85 D101 B300058 209 IN 4148 D107 B300544 209 BAT 85 D101 | | | | | | | | |
| 1010 8300058 209 1N 4148 D107 8300544 209 BAT 85 | | | | | | | | |
| C1 | 0100 | 8300201 20 | 9 Z6.2V 50 | % | 106 | | | |
| 22 |)101 | 8300058 20 | 9 IN 4148 | | D107 | 8300544 2 | 209 BAT : | S5 |
| 23 | | | | | | | | |
| 24-5 4200510 10 μF 20% 16V C15 4200517 2.2 μF 20% 50V C7-9 4200628 100 μF 20% 16V C100 4130262 22 nF 20% 63V C7-9 4200517 2.2 μF 20% 50V C100 4130262 22 nF 20% 63V C7-9 4200517 2.2 μF 20% 50V C100 4130262 22 nF 20% 63V C100 63V | | | | | | | | |
| C7-9 4200628 100 μF 20% 16V C100 4130262 22 nF 20% 63V C7-9 4200517 2.2 μF 20% 50V C100 4130262 22 nF 20% 63V C7-9 4200517 2.2 μF 20% 50V C100 C100 C100 C7-9 C100 C100 C100 C100 C101 C101 C101 C101 C101 C102 C102 C100 C100 C100 C103 C100 C100 C100 C100 C104 C105 C100 C100 C100 C105 C100 C100 C100 C106 C100 C100 C100 C107 C100 C100 C100 C108 C100 C100 C100 C109 C100 C100 C100 C109 C100 C100 C100 C100 C100 C100 C100 C1 | | 4200512 1 p | JF 20% 50√ □F 20% 16 | / :V | | | | |
| C7-9 4200517 2.2 μF 20% 50V | | 4200628 10 | 0 µF 20% 1 | .6V | | | | |
| P2 7220318 Plug 6 pol P5 7220629 Plug 9 pol PP2 7500013 Contact plug C1-8 4010041 10 nF -20+80% 40V P1 7220439 Plug 14/14 pol PP3 7220439 Plug 14/14 pol PP3 8340721 138 MB 88303 TR1-4 8320509 20 BC 548B TR10 8320497 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D7 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C1 4000142 82 pF 5% 63V C1 4000142 82 pF 5% 63V C1 4000142 10 nF -20-80% 44 C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C1 401018 330 pF 10% 63V C8 4010118 330 pF 10% 63V C16 401018 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 pol | C7-9 | | | | | | | |
| CP2 7500013 Contact plug C1-8 4010041 10 nF -20+80% 40V P1 7220439 Plug 14/14 pol CC1 8340175 101 CD 4015 CN CC2 8340721 138 MB 88303 CRR1-4 8320509 20 BC 548B TR8-9 8320510 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 pF 5% 63V C12 4000204 100 pF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20-80% 46 C7 4030023 47 nF -20-80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C16 4010118 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V | | | | | | | | |
| C1-8 4010041 10 nF-20+80% 40V P1 7220439 Plug 14/14 pol C1 8340175 101 CD 4015 CN IC2 8340721 138 MB 88303 TR1-4 8320509 20 BC 548B TR10 8320497 20 BC 553B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C3 4010105 1 nF 10% 63V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20+80% 46 C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 pol | P2 | 7220318 Pli | ıg 6 pol | | P5 | 7220629 1 | Plug 9 pol | |
| P1 7220439 Plug 14/14 pol RC1 8340175 101 CD 4015 CN RC2 8340721 138 MB 88303 TR1-4 8320509 20 BC 548B TR10 8320497 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C1 4200517 2.2 μF 20% 50V C3 4010105 1 nF 10% 63V C1 4200517 2.2 μF 20% 50V C4 4000142 82 pF 5% 63V C1 4000204 100 pF 5% 63V C5 4200617 47 μF 20% 10V C1 4010135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C1 4010135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C1 4010142 10 nF -20+80% 40C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C16 4010118 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 pol | CP2 | 7500013 Co | ntact plug | | | | | |
| TR1-4 8320509 20 BC 548B TR8-9 8320510 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Q 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 -80% 40 C7 4030023 47 nF -20 +80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | C1-8 | 4010041 10 | nF -20+80 | % 40V | | | | |
| TR1-4 8320509 20 BC 548B TR8-9 8320510 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 pF 5% 63V C12 4000204 100 pF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C14 4010105 1 nF 10% 63V C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C16 4010118 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V C9 7210628 Socket 4 pol | P1 | 7220439 Plu | ıg 14/14 po | ol | | | | |
| TR1-4 8320509 20 BC 548B TR8-9 8320510 20 BC 558B TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20+80% 40C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 pol | | | | | | | | |
| TR5 8320510 20 BC 558B TR10 8320497 20 BC 547B TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D7 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 +80% 40 C7 4030023 47 nF -20 +80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | IC2 | 8340721 13 | 88 MB 883 | 03 | | | | |
| TR6-7 8320512 20 BC 338-25 TR11 8320202 20 BC 557A D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 +80% 40 (C7 4030023 47 nF -20 +80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | TR1-4 | 8320509 2 | O BC 5481 | 3 | TR8-9 | 8320510 | 20 BC 55 | 58B |
| D1 8300296 209 Z5.6V 2% D5 8300058 209 1N 4148 D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 400135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 +80% 40 C7 4030023 47 nF -20 +80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | TR5 | | | | | | | |
| D2-3 8300058 209 1N 4148 D6 8300201 209 Z6.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20~80% 40 C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | TR6-7 | 8320512 2 | 0 BC 338- | ·25 | TRII | 8320202 | 20 BC 55 | 57A |
| D4 8300173 209 Z8.2V 5% D7 8300058 209 1N 4148 R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20-80% 40 C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V P1 7210628 Socket 4 μol | | | | | D5 | 8300058 | 209 1N 41 | .48 |
| R1 5020701 12 Ω 5% 1W C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 pF 5% 63V C12 4000204 100 pF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20+80% 40 C7 4030023 47 nF -20+80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C16 4010118 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V | | | | | | | | |
| C1-2 4130230 100 nF 20% 63V C10 4010105 1 nF 10% 63V C3 4010105 1 nF 10% 63V C11 4200517 2.2 μF 20% 50V C4 4000142 82 μF 5% 63V C12 4000204 100 μF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 μF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 ÷ 80% 40 C7 4030023 47 nF -20 ÷ 80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 μF 10% 63V C16 4010118 330 μF 10% 63V C9 4000135 150 μF 5% 63V C17 4200726 47 μF 20% 16V C17 7210628 Socket 4 μ0l | | 8300173 20 | 9 Z8.2V 5 | | D7 | 8300058 2 | 209 IN 41 | .48 |
| C3 | R1 | 5020701 12 | Ω 5% 1W | | | | | |
| C4 4000142 82 pF 5% 63V C12 4000204 100 pF 5% 63V C5 4200617 47 μF 20% 10V C13 4000135 150 pF 5% 63V C6 4010105 1 nF 10% 63V C14 4010142 10 nF -20 +80% 40 4000135 150 pF 5% 63V C7 4030023 47 nF -20 +80% 16V C15 4010105 1 nF 10% 63V C8 4010118 330 pF 10% 63V C16 4010118 330 pF 10% 63V C9 4000135 150 pF 5% 63V C17 4200726 47 μF 20% 16V C17 7210628 Socket 4 pol | C1-2 | 4130230 10 | 0 nF 20% (| 53V | C10 | 4010105 | l nF 10% 6 | 53 V |
| C5 | | | | | | | | |
| C6 | | | | | | | | |
| C7 | | | | | | | | |
| C9 4000135 150 pF 5% 63V C17 4200726 47 µF 20% 16V P1 7210628 Socket 4 pol | | | | | C15 | | | |
| P1 7210628 Socket 4 pol | | | | | | 4010118 | 330 pF 10% | 63V |
| | C9 | 4000135 15 | 0 pF 5% 63 | 3 V | C17 | 4200726 4 | 17 μF 20% | 16V |
| P2 7210627 Socket 13 pol | | | | _ | | | | |
| | P2 | 7210627 So | cket 13 po | l | | | | |

PCB 12, 8003830 Interface Audio/Data

PCB 13, 8003831 A/V Connections

PCB 14, 8003828 Display

PCB 20, 8007089 Sound B/G/I/L/M

| IS01 IS21 IS33 IS53 | 8340086 120 TBA 120UB 8340938 136 TDA 8405 8340790 103 MC 4558 8341037 136 TDA 8421 | IS63 IS73 IS88 | 8340500 143 TDA 2040 8340500 143 TDA 2040 8340086 120 TBA 120 UB |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TS47 TS54 | 8320503 20 BC 557B 8320512 20 BC 338 | | |
| DS01 DS41 DS45 DS68 DS69 | 8300058 209 1N 4148 8300058 209 1N 4148 8300058 209 1N 4148 8300023 209 1N 4001 8300023 209 1N 4001 | DS73 DS75 DS81 DS82 DS88 | 8300023 209 1N 4001 8300023 209 1N 4001 8300058 209 1N 4148 8300058 209 1N 4148 8300058 209 1N 4148 |
| RS41 RS46 RS53 RS65 | 5020746 100 Ω 5% 0.3W 5020744 39 Ω 5% 0.33W 5021070 22 Ω 5% 0.3W 5001034 2.2 kΩ 10% 1/2W | RS70 RS73 RS93 RS95 | |
| PS92 | 5370315 22 kΩ 20% | | |
| CS01 CS02 CS03 CS05 CS06 CS07 CS08 CS09 CS10 CS13 CS14 CS15 CS16 CS17 CS18 CS19 CS20 CS21 CS22 CS23 CS26 CS27 CS28 CS29 CS30 CS31 CS32 CS31 CS32 CS33 CS34 CS35 CS36 CS37 CS38 CS39 CS31 CS31 CS32 CS31 CS31 CS31 CS31 CS31 CS31 CS31 CS31 | 4130193 22 nF 20% 63V 4130193 22 nF 20% 63V 4100255 560 pF 5% 63V 4200510 10 μF 20% 16V 4130193 22 nF 20% 63V 4200646 22 nF 10% 63V 4200129 100 μF -20+50% 16V 4200646 22 nF 1% 63V 4000194 56 pF 5% 50V 4130300 68 nF 20% 63V 4130300 68 nF 20% 63V 410032 33 nF 1% 63V 4200129 100 μF -20+50% 16V 4100260 2.2 nF 2.5% 63V 4100032 33 nF 1% 63V 4200510 10 μF 20% 16V 4010027 1 nF 10% 63V 4200510 10 μF 20% 16V 4010027 1 nF 10% 63V 4100032 33 nF 1% 63V 4200510 10 μF 20% 16V 4010027 1 nF 10% 63V 4100032 33 nF 1% 63V 4200510 10 μF 20% 16V 4200515 4.7 μF 20% 25V 4010027 1 nF 10% 63V 4130235 47 nF 20% 63V 4130235 47 nF 20% 63V 4130235 47 nF 20% 63V 4130220 10 nF 5% 63V 4200516 47 μF 20% 16V | CS52 CS53 CS54 CS55 CS56 CS57 CS58 CS59 CS60 CS61 CS62 CS63 CS64 CS65 CS66 CS67 CS72 CS73 CS74 CS75 CS76 CS77 CS78 CS79 CS71 CS72 CS73 CS74 CS75 CS76 CS77 CS78 CS79 CS70 CS71 CS77 CS78 CS79 CS70 CS71 CS77 CS78 CS79 CS70 CS71 CS79 CS71 CS79 CS79 CS70 CS71 CS79 CS79 CS70 CS71 CS79 CS79 CS79 CS79 CS79 CS79 CS79 CS79 | 4010188 2.2 nF 10% 63V 4200637 100 μF -10+100% 16V 4200637 100 μF -10+100% 16V 4010182 3.9 nF 10% 63V 4130302 33 nF 10% 63V 4200508 22 μF 20% 25V 4130347 5.6 nF 10% 63V 4130302 33 nF 10% 63V 4100182 3.9 nF 10% 63V 4010182 3.9 nF 10% 63V 4010027 1 nF 10% 63V 4010027 1 nF 10% 63V 4130313 470 nF 20% 63V 4130313 470 nF 20% 63V 4200843 3300 μF -10+50% 50V 4200816 2200 μF 35V 4200816 2200 μF 35V 4200508 22 μF 20% 25V 4130315 15 nF 5% 63V 4200514 22 μF 20% 16V 4010027 1 nF 10% 63V 4200514 22 μF 20% 63V 4130308 220 nF 20% 63V 4130308 22 μF -10+100% 63V 4200313 2.2 μF -10+100% 63V 4130193 22 nF 20% 63V 4100257 1nF 10% 63V 4200637 100 μF -10+100% 16V 4130193 22 nF 20% 63V 4200637 100 μF -10+100% 16V 4130193 22 nF 20% 63V 4200637 100 μF -10+100% 16V 4130193 22 nF 20% 63V 4200637 100 μF -10+100% 16V 410027 1 nF 10% 63V 4200637 100 μF -10+100% 16V 410027 1 nF 10% 63V 4200637 100 μF -10+100% 16V |
| LS03 LS17 LS69 | 8030083 Coil 5.5 MHz 8022244 Coil 54.687 kHz 6710020 Ferrite core | LS74 LS80 LS86 | 6710020 Ferrite core 8030083 Coil 5.5 MHz 8030083 Coil 5.5 MHz |

AM/FM Sound 8007090

Bang & Olufsen

| 20 | 42 | 136 | 209 | 215 | | |
|-----|-----|-----|----------------|----------|--|--|
| E B | B E | | <u>*-[]-</u> ° | <u> </u> | | |

| QS06 QS86 QS89 | 8030085 Cer. filter 5.742 MHz 8030091 Cer. filter 6.0 MHz 8030086 Cer. filter 5.5 MHz | | |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------|
| BS01 BS13 BS14 BS15 | 7220652 Plug 5 pol 7220752 Plug 2 pol red 7220753 Plug 2 pol green 7210730 Socket 3 pol 7210731 Socket 8 pol 7210732 Socket 10 pol | BS20 BS36 BS45 | 7220652 Plug 5 pol 7220625 Plug 3 pol 7220652 Plug 5 pol |
| IX28 IX46 | 8341115 136 TDA 4445 8341116 136 TDA 120T | | |
| TX14 TX44 | 8320554 42 BF 199 8320509 20 BC 548B | TX52 TX58 | |
| DX01 DX08 DX18 | 8300387 215 BA 244 8300387 215 BA 244 8300387 215 BA 244 | DX56- DX59 | 8300058 209 1N 4148 |
| RX13 | 5020756 10 Ω 5% 0.3W | | |
| PX39 | 5370379 47 kΩ | | |
| CX01 CX02 | 4100233 150 pF 5% 63V 4000019 68 pF 5% 63V | CX31 CX32 | 4200168 4.7 µF -10-100% 63V 4000025 15 pF 5% 63V |

| 1 1 1 2 3 | 3310319 41 KW | | |
|-----------|-----------------------------|------|-----------------------------|
| CX01 | 4100233 150 pF 5% 63V | CX31 | 4200168 4.7 µF -10+100% 63V |
| CX02 | 4000019 68 pF 5% 63V | CX32 | 4000025 15 pF 5% 63V |
| CX04 | 4000177 12 pF 5% 63V | CX33 | 4100247 1.8 nF 5% 63V |
| CX06 | 4000366 2.7 pF 63V | CX36 | 4130193 22 nF 20% 63V |
| CX07 | 4000019 68 pF 5% 63V | CX37 | 4130193 22 nF 20% 63V |
| CX08 | 4000177 12 pF 5% 63V | CX39 | 4010063 4.7 nF 10% 63V |
| CX11 | 4000365 27 pF 63V | CX41 | 4130233 220 nF 20% 63V |
| CX14 | 4000120 6.8 pF ±0.25 pF 63V | CX42 | 4000160 220 pF 5% 63V |
| CX17 | 4130193 22 nF 20% 63V | CX43 | 4200168 4.7 µF -10=100% 63V |
| CX18 | 4000179 120 pF 5% 63V | CX44 | 4200516 47 µF 20% 16V |
| CX19 | 4000019 68 pF 5% 63V | CX46 | 4130193 22 nF 20% 63V |
| CX21 | 4130193 22 nF 20% 63V | CX47 | 4130193 22 nF 20% 63V |
| CX24 | 4200516 47 µF 20% 16V | CX48 | 4130313 470 nF 20% 63V |
| CX26 | 4130193 22 nF 20% 63V | CX49 | 4100247 1.8 nF 5% 63V |
| CX27 | 4000183 22 pF 5% 63V | CX51 | 4200510 10 uF 20% 16V |
| CX29 | 4200510 10 µF 20% 16V | | , |
| LX03 | 8020722 Coil 39.2 MHz | LX22 | 8020722 Coil 39.2 MHz |
| LX09 | 8020722 Coil 39.2 MHz | LX28 | 8020722 Coil 39.2 MHz |

QX34 8030154 Cer. filter 4.5 MHz QX38 8030155 Cer. filter 4.5 MHz

BX58 7500013 Contact pin

3-10

PCB 40, 8007091 Pal/Secam Decoder

| IC01∆ | 8340786 136 TDA 4556 | | |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IV21∆ | 8341114 136 HA 11498 | | |
| TC29 TC34 TC41 | 8320509 20 BC 548B 8320509 20 BC 548B 8320509 20 BC 548B | | |
| TV49 TV50 TV56 | 8320510 20 BC 558B 8320510 20 BC 558B 8320509 20 BC 548B | TV71 TV72 TV74 | 8320509 20 BC 548B 8320509 20 BC 548B 8320510 20 BC 558B |
| DV24 DV58 DV70 | 8300029 209 ZPD 12V 8300058 209 1N 4148 8300058 209 1N 4148 | | |
| RC21 | 50 2 0745 15 Ω 5% 0.3W | | |
| RV51 | 5020756 10 Ω 5% 0.3W | | |
| PC18 | 5370321 220 Ω 20% | | |
| PV38 PV44 | 5370308 2.2 kΩ 20% 5370308 2.2 kΩ 20% | | |
| CC01 CC02 CC03 CC04 CC05 CC06 CC07 CC08 CC09 CC11 CC12 CC13 CC14 CC15 CC16 | 4010219 180 pF 50V 4000183 22 pF 5% 63V 4000215 68 pF 5% 63V 4000215 68 pF 5% 63V 4010219 180 pF 50V 4000183 22 pF 5% 63V 4000160 220 pF 5% 63V 4100244 180 pF 5% 63V 4130193 22 nF 20% 63V 4130236 330 nF 20% 63V 4340027 4-40 pF 4130193 22 nF 20% 63V 4010027 1 nF 10% 63V 4100244 180 pF 5% 63V 4100244 180 pF 5% 63V 4130220 10 nF 5% 63V | CC18 CC19 CC22 CC23 CC24 CC25 CC26 CC27 CC28 CC29 CC31 CC32 CC33 CC34 | 4130230 100 nF 20% 50V 4130220 10 nF 5% 63V 4000207 33 pF 5% 63V 4100233 150 pF 5% 63V 4000244 27 pF 5% 50V 4000176 100 pF 5% 63V 4000200 82 pF 5% 63V 4000191 47 pF 5% 63V 4130223 47 nF 10% 63V 4130233 220 nF 20% 63V 4200312 1000 μF -10+100% 16V 4000160 220 pF 5% 63V |
| CV21- CV23 CV24 CV25- CV27 CV29 CV31- CV33 CV34 CV35 CV36 | 4130193 22 nF 20% 63V 4200510 10 µF 20% 16V 4130193 22 nF 20% 63V 4200515 4.7 µF 20% 25V 4130230 100 nF 20% 63V 4130304 22 nF 10% 63V 4130230 100 nF 20% 63V 4130230 100 nF 20% 63V 4130193 22 nF 20% 63V | CV44 CV46 CV47 CV49 CV54 CV55 CV56 CV57 CV61 CV62 | 4200431 10 μF 20% 16V 4130220 10 nF 5% 63V 4200395 470 μF -10+50% 16V 4130235 47 nF 20% 50V 4000188 39 pF 5% 63V 4130193 22 nF 20% 63V 4000215 68 pF 5% 63V 4130193 22 nF 20% 63V 4130193 22 nF 20% 63V 4130193 22 nF 20% 63V 4100233 150 pF 5% 63V 4010031 680 pF 10% 63V |
| CV37 CV38 CV39 CV41 CV42 CV43 | 4130230 100 nF 20% 63V 4130193 22 nF 20% 63V 4230230 100 nF 20% 63V 4000160 220 pF 5% 63V 4130220 10 nF 5% 63V 4200483 47 µF 20% 16V | CV64 CV66 CV67 CV68 CV69 | 4100233 150 pF 5% 63V 4200510 10 μF 20% 16V 4000176 100 pF 5% 63V 4000365 27 pF 5% 63V 4000191 47 pF 5% 63V 4010081 270 pF 10% 63V |
| LC01 LC05 LC14 LC17 LV56 LV57 LV64 LV68 | 8020717 Coil 4.43 MHz 8020717 Coil 4.43 MHz 8020718 Coil 4.43 MHz 8020719 Coil 4.43 MHz 8030083 Coil 5.5 MHz 8020721 Coil 22 µH 8020723 Coil 5.5 MHz 8020606 Coil 27 µH | LC18 LC23 LC24 LC28 | 8020552 Coil 10 μH 8020720 Coil 4.43 MHz 8020724 Coil 56 μH 8020554 Coil 15 μH |

3-11

Bang & Olufsen

| 51 | 52 | 144 | 145 | 203 | 217 | |
|-----------|-----------------|-----------|--------------------------|---------------------------------------|-----------|--|
| £ 8 | 0 0 3 (E | 25 11 4 | 14 8 FC 745C COT 7 | , , , , , , , , , , , , , , , , , , , | A C | |
| Resistors | s not refe | rred to a | re standa | rd, see pa | age 3-12. | |

| Resiste | ors not referred to are stand | ard, see | page 3-12. |
|--------------|-------------------------------------------------------|----------|----------------------------|
| VC17 | 6240019 Delay line | | |
| VV53 | 6240029 Delay line | | |
| QC11 | 8090049 Crystal 8.8 MHz | | |
| BV02 | 7220624 Plug 6 pol | | |
| BV04 BV05 | 7210728 Socket 14 pol 7210729 Socket 18 pol | | |
| IC1* | 8340776 144 68 HC04 P3 | | |
| IC2 | 8340830 145 74 HC 393 | | |
| TR1-3 | 8320615 51 BC 848B | TR6 | 8320616 51 BC 858B |
| TR4 TR5 | 8320616 51 BC 858B 8320684 52 BC 869 | TR7 | 8320684 52 BC 869 |
| D1-6 | 8300482 217 LL4148 | | |
| D7-8 | 8330140 203 TSHA 5502 | | |
| R13-14 | 5011281 0.82 Ω 5% 1/4W | | |
| C1 | 4010166 100 nF -20+80% 50V | C5 | 4000321 220 pF 5% 50V |
| C2 | 4200515 4.7 µF 20% 25V | C6 | 4200664 470 µF 20% 6.3V |
| C3 C4 | 4000239 33 pF 5% 50V 4000278 27 pF 5% 50V | C7 | 4010166 100 nF -20+80% 50V |

PCB 50, 8003894, Beolink 1000

8030094 Crystal $3.64~\mathrm{MHz}~0.3\%$

X1

^{*} Specially selected or adapted sample.

3-12

Standard Resistsors:

Resistors 5% 1/2 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|
| 1.0 1.2 1.5 | 5011406 5010727 | 5011000 5011001 5011002 | 5011013 5011014 5011015 | 5011028 5011030 5011031 | 5011044 5011045 5011046 | 5010313 5011058 5011059 | 5011069 5010421 5011071 | 5011083 |
| 1.8 2.2 2.7 | 5010857 5011335 | 5010787 5010708 5010803 | 5011016 5010815 5011018 | 5011033 5011034 5010055 | 5011047 5011048 5011049 | 5011061 5011062 | 5011072 5011074 5011075 | |
| 3.3 3.9 4.7 | 5010255 5010765 | 5011007 5010782 5011009 | 5011019 5011021 5011022 | 5011037 5010700 5010035 | 5011051 5010036 | 5011063 5011065 | 5010381 5010392 5011078 | |
| 5.6 6.8 8.2 | 5010874 | 5011010 5011011 5011012 | 5011023 5011024 5011026 | 5011041 5011042 5011043 | 5010810 5010038 | 5011066 5011067 5011068 | 5011079 5011080 5011081 | |

Resistors 5% 1/4 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|
| 1.0 1.2 1.5 | 5010592 5011348 | 5010506 5010595 5010468 | 5010065 5010128 5010057 | 5010040 5010153 5010247 | 5010059 5010046 5010053 | 5010049 5010047 5010063 | 5010054 5010665 5010093 | 5010638 |
| 1.8 2.2 2.7 | 5010682 5010925 | 5010822 5010448 5010403 | 5010362 5010092 5010000 | 5010066 5010064 5010298 | 5010135 5010079 5010141 | 5010072 5010120 5010083 | 5010791 5010245 5010431 | |
| 3.3 3.9 4.7 | 5011377 5010888 | 5010253 5010622 5010411 | 5010044 5010070 5010058 | 5010076 5010069 5010048 | 5010075 5010060 5010045 | 5010117 5010073 5010077 | 5010848 5010714 5011513 | |
| 5.6 6.8 8.2 | 5010706 5010904 5010880 | 5010151 5010039 5010056 | 5010067 5010144 5010068 | 5010041 5010052 5010154 | 5010061 5010062 5010091 | 5010071 5010074 5010505 | 5010658 | |

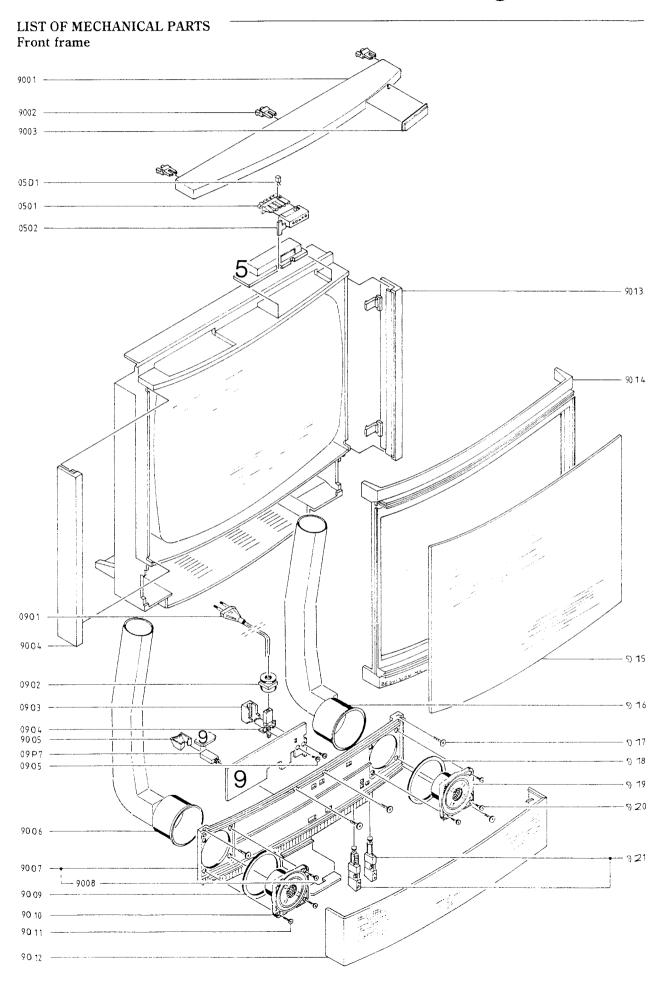
Resistors 5% 1/8 W

| | xl | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-------------------|---------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|
| 1.0 1.2 1.5 | | 5011464 5011351 5011463 | 5011357 5011084 5011443 | 5010816 5011442 5011178 | 5010935 5011338 5011364 | 5011440 5011341 5011398 | 5011459 5011175 5011460 | 5020875 |
| 1.8 2.2 2.7 | 5011032 | 5011376 5011471 | 5011350 5010886 5011355 | 5011361 5011353 5011362 | 5011344 5010833 5011366 | 5011468 5011369 5011370 | 5011342 5011478 | |
| 3.3 3.9 4.7 | 5011363 | 5011438 5011038 | 5011337 5011441 | 5010827 5011157 5011363 | 5011346 5011457 5010937 | 5011371 5011372 5011343 | 5011462 5020876 | |
| 5.6 6.8 8.2 | | 5011412 5011356 5011466 | 5011358 5011336 5011354 | 5010885 5010839 5011339 | 5011166 5011367 5011368 | 5011340 5011458 5011373 | | |

Resistors SMD 2% 1/8 W SMD 5% 1/8 W

| | 5% | 2 % | 2% | 2% | 2% | 2% | 5% | 5% |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 | 5011623 | 5011647 | 5011218 | 5011227 | 5011241 | 5011256 | 5011267 | 5011730 |
| 1.1 | 5011624 | 5011648 | 5011669 | 5011681 | 5011689 | 5011694 | 5011707 | |
| 1.2 | 5011625 | 5011649 | 5011219 | 5011682 | 5011490 | 5011257 | 5011708 | |
| 1.3 | 5011626 | 5011650 | 5011670 | 5011683 | 5011242 | 5011258 | 5011709 | |
| 1.5 | 5011627 | 5011651 | 5011220 | 5011228 | 5011243 | 5011259 | 5011710 | |
| 1.6 | 5011628 | 5011652 | 5011671 | 5011684 | 5011690 | 5011695 | 5011711 | |
| 1.8 | 5011629 | 5011653 | 5011672 | 5011229 | 5011244 | 5011260 | 5011712 | |
| 2.0 | 5011630 | 5011654 | 5011673 | 5011685 | 5011691 | 5011696 | 5011713 | |
| 2.2 | 5011216 | 5011655 | 5011674 | 5011230 | 5011245 | 5011261 | 5011714 | |
| 2.4 | 5011634 | 5011656 | 5011675 | 5011686 | 5011246 | 5011697 | 5011715 | |
| 2.7 | 5011635 | 5011657 | 5011497 | 5011231 | 5011247 | 5011262 | 5011716 | |
| 3.0 | 5011731 | 5011658 | 5011499 | 5011500 | 5011692 | 5011698 | 5011717 | |
| 3.3 | 5011217 | 5011659 | 5011676 | 5011232 | 5011248 | 5011263 | 5011718 | |
| 3.6 | 5011636 | 5011660 | 5011677 | 5011687 | 5011249 | 5011264 | 5011719 | |
| 3.9 | 5011637 | 5011661 | 5011221 | 5011233 | 5011491 | 5011699 | 5011720 | |
| 4.3 | 5011638 | 5011662 | 5011498 | 5011688 | 5011492 | 5011700 | 5011721 | |
| 4.7 | 5011639 | 5011269 | 5011222 | 5011234 | 5011250 | 5011265 | 5011722 | |
| 5.1 | 5011640 | 5011663 | 5011678 | 5011235 | 5011493 | 5011701 | 5011723 | |
| 5.6 | 5011641 | 5011664 | 5011223 | 5011236 | 5011251 | 5011702 | 5011724 | |
| 6.2 | 5011642 | 5011665 | 5011224 | 5011237 | 5011693 | 5011703 | 5011725 | |
| 6.8 | 5011643 | 5011666 | 5011225 | 5011238 | 5011252 | 5011704 | 5011726 | |
| 7.5 | 5011644 | 5011667 | 5011679 | 5011239 | 5011253 | 5011705 | 5011727 | |
| 8.2 | 5011645 | 5011270 | 5011226 | 5011240 | 5011254 | 5011266 | 5011728 | |
| 9.1 | 5011646 | 5011668 | 5011680 | 5011489 | 5011255 | 5011706 | 5011729 | |

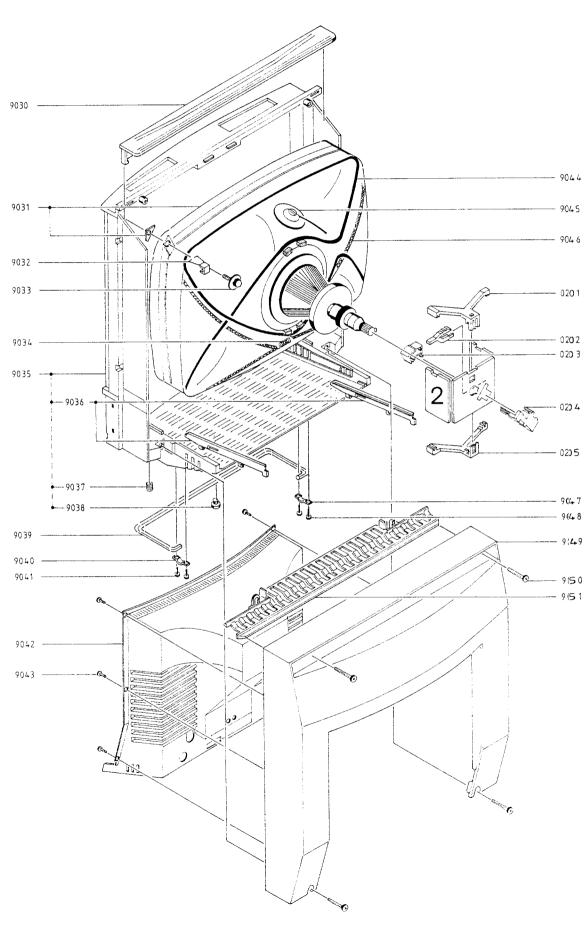
(Glue dots, approx. 200, part no. 3181932).



Front frame

| 05Mod 0501 0502 | ul 8003829 3375050 3131313 | PCB 5, IR-Receiver Lense Housing |
|-----------------------|----------------------------------|-------------------------------------------------------------|
| 05D1 | 8330145 | Diode BPW 82 |
| 09Mod | ul 8003824 | PCB 9, P-Step/Mains Filter |
| 0901 | 8003905 6271102 | PCB 9, P-Step/Mains Filter Australia Mains lead w/euro plug |
| 0301 | 6270297 | Mains lead f/Australia |
| 0902 | 2641119 | Bushing f/mains cable |
| 0903 | 3164613 | Cap f/mains switch |
| 0904 | 7450048 | Mains switch |
| 0905 | 2039026 | Screw 3 x 4 mm |
| 09P7 | 7210386 | Jack plug |
| 9001 | 3164644 | Lid |
| 9002 | 2391070 | Hinge |
| 9003 | 3322092 | Window |
| 9004 | 3470193 | Side plate |
| | 3950028 | Rubber string |
| 9005 | 2510160 | Clips |
| 9006 | 3132113 | Loudspeaker damping tube/left |
| 9007 | 3440107 | Loudspeaker baffle w/foot |
| 9008 | 3103286 | Foot |
| 9009 | 3340047 | Gasket |
| 9010 | 8480164 | Loudspeaker |
| | 6275816 | Lead black/brown |
| 0011 | 6275817 | Lead red/brown |
| 9011 | 2013123 | Screw 3 x 10 mm |
| 9012 | 3450704 | Loudspeaker panel |
| 9013 | 3470193 | Side plate |
| 0014 | 3950028 | Rubber string |
| 9014 | 3320114 | Front frame |
| 9015 | 3950020 3450703 | Rubber string Contrast screen |
| 9015 | 3132114 | Loudspeaker damping tube/right |
| 9017 | 2019009 | Screw 4 x 12 mm |
| 9018 | 3340047 | Gasket |
| 9019 | 8480164 | Loudspeaker |
| 9020 | 2013123 | Screw 3 x 10 mm |
| 9021 | 2776083 | Press buttons, complete |
| 3041 | 27.0000 | 11000 Vattono, complete |

Cabinet



Cabinet

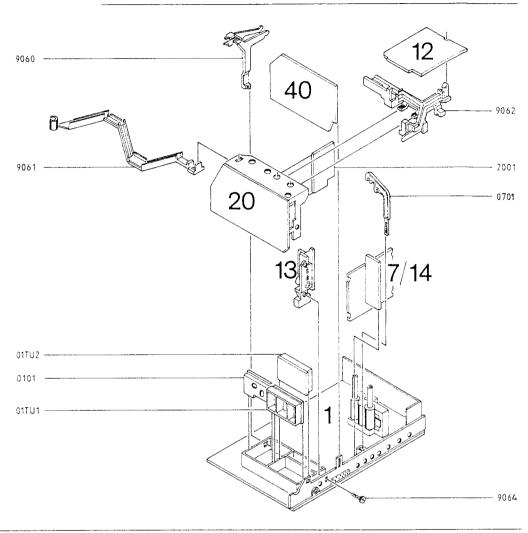
| OBLITOU | 41 0000000 | 1 OD 5, riaco output |
|---------|------------|------------------------------------------|
| 0201 | 3152558 | Holder |
| 0202 | 3152583 | Holder f/focuscontact |
| 0203 | 3164679 | Cap f/picture tube socket |
| 0204 | 7210635 | Focus socket |
| 0205 | 3152558 | Holder |
| 9030 | 2530536 | Carrying handle |
| 9031 | 8200059 | Picture tube - Video Color, see page 7-1 |
| | 8200062 | Picture tube - ITT, see page 7-1 |
| 9032 | 2514066 | Hook f/picture tube |
| 9033 | 2044048 | Screw/picture tube |
| 9034 | 2810189 | Spring |
| 9035 | 3320129 | Bottom/front part |
| | 3946094 | Tightening rail |
| 9036 | 3151222 | Guide rail |
| 9037 | 2389051 | Drive fit nut |
| 9038 | 3035053 | Rubber foot |
| 9039 | 3103261 | Tilting foot |
| 9040 | 2641114 | Fitting |
| 9041 | 2019009 | Screw 4 x 12 mm |
| 9042 | 3430461 | Back cover |
| | 3911106 | Cloth |
| 9043 | 2019010 | Screw 4 x 8 mm |
| 9044 | 8022267 | Degaussing coil |
| 9045 | 6270364 | EHT cable |
| 9046 | 7510035 | Ground current |
| 9047 | 2641114 | Fitting |
| 9048 | 2019009 | Screw 4 x 12 mm |
| 9049 | 3414164 | Back cover, red |
| | 3414165 | Back cover, white |
| | 3414166 | Back cover, black |
| | 3414167 | Back cover, grey |
| | 3414168 | Back cover, blue |
| 9050 | 2021007 | Screw 5 x 30 mm |
| 9051 | 3444182 | Grill |
| | | |

02Modul 8003823 PCB 2, Video Output

4-5

Bang & Olufsen

El-Chassis



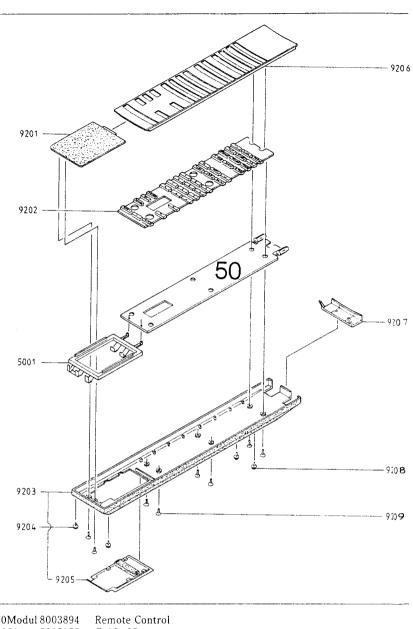
| 01Modul | 8053219 8053272 | PCB 1, Basic Board f/ITT pictu PCB 1, Basic Board f/VC pictur | | |
|------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|
| | 8007021 8050115 8050116 | Transposer VHF Tuner UHF Tuner | 3152576 3152721 | Holder EHT Cable Holder focus cable |
| 07Modul 0701 | 8003914 3152584 | PCB 7, Teletext Holder | | |
| 12Modul | 8003830 | PCB 12, Interface Audio/Data | | |
| 13Modu | 18003831 | PCB 13, A/V Connections | | |
| 14Modu | 18003828 | PCB 14, Display | | |
| 20Modu 2001 | 1 8007089 8007090 | PCB 20, Sound B/G/I/L/M AM/FM Sound | | |
| 40Modul | 8007091 | PCB 40, Pal/Secam Decoder | | |
| 9060 9061 9062 9064 | 3152662 3152555 6275749 3152559 2013123 | Holder f/PCB 20 Holder f/mains cable Mains cable w/holder Holder f/PCB 12 Screw 3 x 10 mm | | |

| Parts not shown | | 3503508 3503509 3503510 3503511 3503512 3503513 3503514 3503516 3397557 3917104 3397620 3391983 | Owner's manual Danish Owner's manual Swedish Owner's manual Finnish Owner's manual English Owner's manual German Owner's manual Dutch Owner's manual French Owner's manual Greek Owner's manual Italian Packing: Foam insert Foam foil Foam packing Outer carton |
|----------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCESSORIES Teletext, 8003914 | | 8341123 3152584 3543099 3391792 | μP HD 404918 Holder Mounting instructions Packing |
| Indoor antenna, 8720031 | | 3543063 | Mounting instructions |
| Sound Kit 6.5 MHz-K1, 8003917 | IZ07 IZ14 | 8341115 8341116 | TDA 4445B TBA 120T |
| | TZ04 TZ08 TZ11 | 8320486 8320510 8320509 | BF 959 BC 558 BC 548B |
| | | 3543104 | Mounting instructions |

Beolink 1000 Terminal

8930130 Beolink 1000 8930150 Beolink 1000, Italian

Bang & Olufsen



| 50 Mod u 5001 | 3015152 7500211 | Remote Control Guide f/battery Contact spring |
|-------------------------|--------------------|-----------------------------------------------------|
| 9201 | 3164688 | Battery lid |
| 9202 | 2776086 | Set of buttons, type 3013 |
| | 2776087 | Set of buttons, type 3015 |
| 9203 | 3131300 | Bottom |
| 9204 | 3103274 | Plastic foot |
| 9205 | 3164606 | Battery cover |
| 9206 | 3131297 | Top, type 3013 |
| | 3131299 | Top, type 3015 |
| 9207 | 3375047 | Lens |
| 9208 | 3103274 | Plastic foot |
| 9209 | 2034066 | Screw 2 x 5mm |
| | 8700017 | Battery |
| | 3395073 | Outer carton |
| | 3397650 | Foam packing |
| | 3390210 | Bag |
| | 0.5.00 + 0.5 | ~ · · · · · · · · · · · · · · · · · · · |

Owner's manual Danish

Owner's manual Swedish Owner's manual Finnish

Owner's manual English

Owner's manual German

Owner's manual Dutch

Owner's manual French

Owner's manual Greek

Owner's manual Italian

3503495

3503496

3503497 3503498

3503499

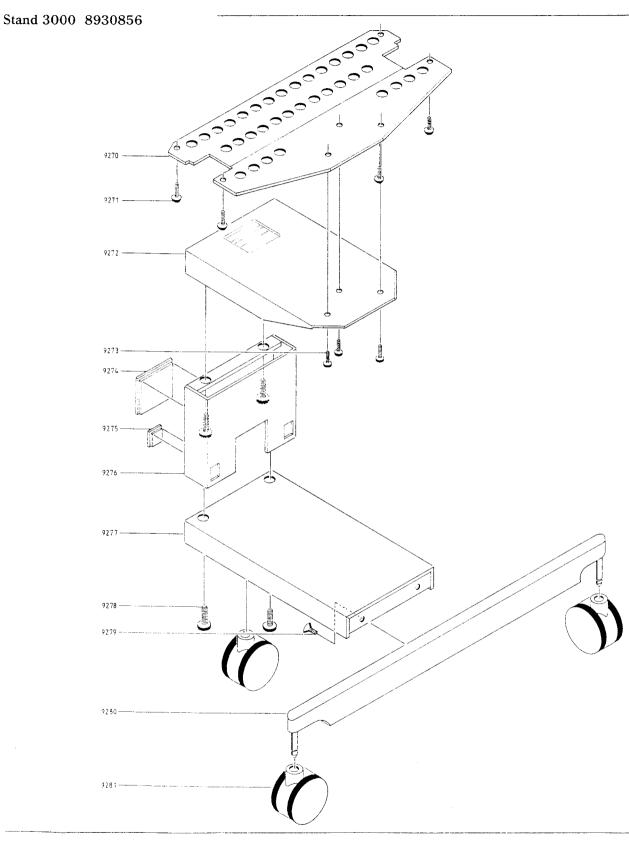
3503500

3503501

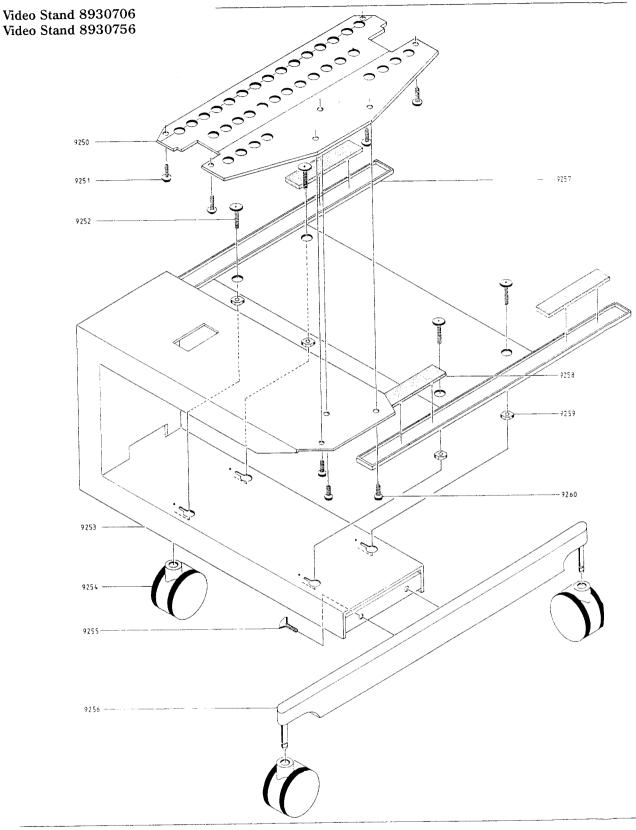
3503502

3503503

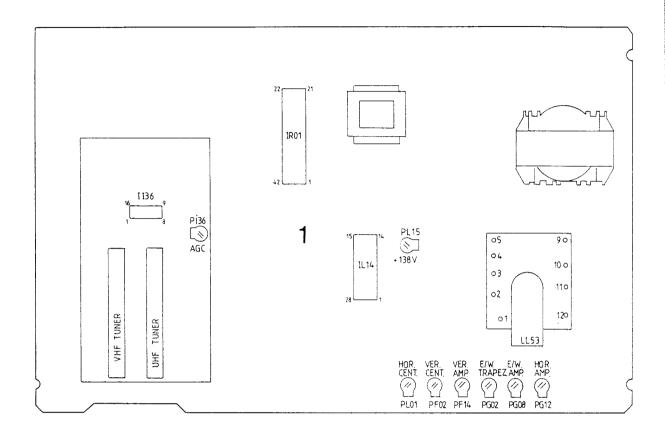
Parts not shown

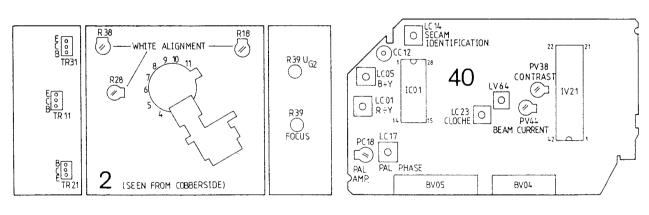


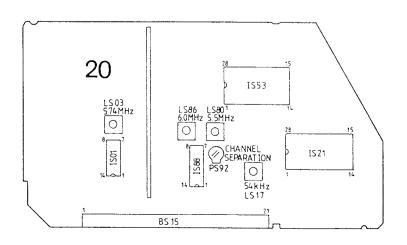
| 9270 9271 9272 9273 9274 | 3124122 2044033 3100058 2042063 3341071 | Mounting plate Screw 5 x 12mm Frame top Screw 4 x 6mm Cover | 9278 9279 9280 9281 | 2046009 2044032 3450825 3032019 | Screw 6 x 16mm Screw 5 x 10mm Profile Wheel |
|--------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|------------------------------|------------------------------------------|------------------------------------------------------------|
| 9275 9276 9277 | 3341072 3100059 3100060 | Cover Frame intermediate piece Frame bottom | | 3390344 3543093 3392063 3397676 | Bag w/parts Assembling guide Packing Foam packing |



| 9250 9251 9252 9253 | 3124098 2044033 2044034 3100025 | Mounting plate Screw 5 x 12mm Screw 5 x 30mm Frame | 9258 9259 9260 | 3912047 2380139 2042052 | Felt self adhes ive Nut M5 Screw 4 x 6nnx1 |
|------------------------------|------------------------------------------|-------------------------------------------------------------|----------------------|-------------------------------|------------------------------------------------------------|
| 9254 9255 9256 | 3032002 2044032 3450544 | Wheel Screw 5 x 10mm Profile | • | 3390268 3543058 | Bag w/parts Assembling pride f/type 3070 |
| 9257 | 3151243 3151259 | Video holder f/type 3070 Video holder f/type 3075 | | 3543076 3391925 3397547 | Assembling paide f/type 3075 Packing Foam packing |







JUSTERINGSVEJLEDNING

Justeringerne udføres med følgende grundstilling, med mindre andet er nævnt:

»BRILLIANCE« niveau 20, »COLOUR« niveau 40 og »CONTRAST« niveau 24.

Netdel, 1PL15:

Et DC-voltmeter tilsluttes ben 10 på linieudgangstransformatoren 1LL53.

Potentiometeret 1PL15 justeres til 138V.

Skærmgitter, 2R39 UG2:

»CONTRAST« og »BRILLIANCE« reguleres til minimum

Med et DC-voltmeter måles spændingerne på kollektorerne af videoudgangstransistorerne 2TR11, 2TR21 og 2TR31.

Med 2R39 UG2 potentiometeret justeres den højeste af de målte værdier til 155V.

Fokus, 2R39:

Fokuspotentiometeret 2R39 justeres, til der opnås maksimal skarphed på de lodrette linjer, der ligger ca. 10 cm. fra skærmkanten.

Spidshvid, 40PV38:

»BRILLIANCE« reguleres til niveau 09 og

»CONTRAST« til niveau 31.

Modtageren tilføres et gittermønstersignal. Et oscilloscop tilsluttes ben 6 på billedrørssoklen (10:1 probe).

Potentiometeret 40PV38 justeres til en amplitude på $90V_{SS}$ fra sort til hvidt.

Strålestrøm, 40PV44:

»BRILLIANCE« reguleres til niveau 31 og

»CONTRAST« til niveau 10.

Modtageren tilføres et hvidt signal.

Et oscilloscop tilsluttes ben 6 på billedrørssoklen (10:1 probe).

Potentiometeret 40PV44 justeres til en amplitude på 50V_{SS} fra sort til hvidt.

Hvidniveau, 2R18, 2R28, 2R38:

»BRILLIANCE« reguleres til niveau 24 og

»CONTRAST« til niveau 13.

Modtageren tilføres et gråskalasignal.

Potentiometeret 2R28 sættes i midterstilling, og med potentiometerne 2R18 og 2R38 justeres, til gråskalaens felter er farveløse.

Såfremt der ikke opnås farveløse felter, ændres 2R28's indstilling, og proceduren gentages.

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ADJUSTMENTS

All adjustments are carried out with the following preset levels, unless otherwise indicated:

"BRILLIANCE" level 20, "COLOUR" level 40, "CONTRAST" level 24.

Power-supply, 1PL15:

Connect a DC voltmeter to pin 10 of the EHT-transformer 1LL53.

Adjust the potentiometer 1PL15 to 138V.

Screen grid, 2R39 UG2:

Adjust "CONTRAST" and "BRILLIANCE" to minimum.

Using a DC voltmeter measure the voltages of the collectors of the video output transistors 2TR11, 2TR21 and 2TR31.

Using the potentiometer 2R39 UG2 set the highest of the measured levels to 155V.

Focus, 2R39:

Adjust the focus potentiometer 2R39 until maximum sharpness is achieved on the vertical lines approx. 10 cm from the edge of the screen.

Peak white, 40PV38:

Adjust "BRILLIANCE" to level 09 and "CONTRAST" to level 31.

Feed a grid pattern signal to the receiver.

Connect an oscilloscope to pin 6 of the picture tube socket (10:1 probe).

Adjust the potentiometer 40PV38 to an amplitude $\mathfrak{o}\mathbf{f}$ 90V_{pp} from black to white.

Beam current, 40PV44:

Adjust "BRILLIANCE" to level 31 and "CONTRAST" to level 10.

Feed a white signal to the receiver.

Connect an oscilloscope to pin 6 of the picture tube socket (10:1 probe).

Adjust the potentiometer 40PV44 to an amplitude ϵf 50V_{pp} from black to white.

White alignment, 2R18, 2R28, 2R38:

Adjust "BRILLIANCE" to level 24 and "CONTRAST" to level 13.

Feed a grey scale signal to the receiver. Set the potentiometer 2R28 to its middle position, and using the potentiometers 2R18 and 2R38 adjust until the fields of the grey scale are colourless. If colourless fields cannot be achieved, adjust the position of 2R28 and repeat the procedure.

Tunerjustering.

AGC take over, 1PI36:

Modtageren tilføres et antennesignal på 1,3mV og frekvensen 217MHz.

Et DC-voltmeter tilsluttes ben 5 på 1II36. Potentiometeret 1PI36 drejes helt med uret. Potentiometeret 1PI36 justeres, til spændingen er faldet 0,3V.

Afbøjningsjusteringer.

Horisontal centrering, 1PL01:

Potentiometeret 1PL01 justeres til optimal billedcentrering.

Horisontal amplitude, 1PG12:

Potentiometeret 1PG12 justeres til optimal billedbredde.

Vertikal centrering, 1PF02:

Potentiometeret 1PF02 justeres til optimal billedcentrering.

Vertikal amplitude, 1PF14:

Potentiometeret 1PF14 justeres til optimal billedhøjde.

E/W amplitude, 1PG08:

Potentiometeret 1PG08 justeres til lige lodrette linjer i højre og venstre side af billedet.

E/W trapez, 1PG02:

Potentiometeret 1PG02 justeres til lige lodrette linjer i højre og venstre side af billedet.

PAL justeringer.

Under disse justeringer er det en fordel at fjerne lydmodulet PCB20.

PAL-reference 8,86MHz, 40CC12:

Modtageren tilføres et PAL farvebar-signal. På loddesiden af PCB40 forbindes ben 13 og ben 28 på 40IC01 med en 1 kohms modstand. Ben 17 og ben 9 på 40IC01 kortsluttes. Trimmekondensatoren 40CC12 justeres til minimal farverul.

Kortslutningen og modstanden fjernes.

PAL-fase, 40LC17, PAL-amplitude, 40PC18:

»COLOUR« justeres til niveau 60.

Modtageren tilføres et test-signal med farveløse R-Y/B-Y-felter.

Spolen 40LC17 (PAL-fase) og potentiometeret 40PC18 (PAL-amplitude) justeres til minimal farve i de farveløse R-Y/B-Y-felter af testbilledet.

Tuner adjustment.

AGC take-over, 1PI36:

Feed an aerial signal of 1.3mV and the frequency 217MHz to the receiver.

Connect a DC voltmeter to pin 5 of 1II36.

Turn the potentiometer 1PI36 clockwise as much as possible.

Adjust the potentiometer until the voltage has dropped by 0.3V.

Deflection adjustments.

Horizontal centering, 1PL01:

Using the potentiometer 1PL01, adjust until the picture is correctly centered.

Horizontal amplitude, 1PG12:

Using the potentiometer 1PG12, adjust until the correct picture width is achieved.

Vertical centering, 1PF02:

Using the potentiometer 1PF02, adjust until the picture is correctly centered.

Vertical amplitude, 1PF14:

Using the potentiometer 1PF14, adjust until the correct picture height is achieved.

E/W amplitude, 1PG08:

Using the potentiometer 1PG08, adjust until straight vertical lines are achieved in the righthand and lefthand sides of the picture.

E/W trapeze, 1PG02:

Using the potentiometer 1PG02, adjust until straight vertical lines are achieved in the righthand and lefthand sides of the picture.

PAL adjustments

It is advisable to remove the sound module PCB20 before carrying out these adjustments.

PAL reference 8.86MHz, 40CC12:

Feed a PAL colourbar signal to the receiver. On the copperfoil side of PCB40 connect pins 13 and 28 of 40IC01 with a resistor of 1 kohm. Short-circuit pins 17 and 9 of 40IC01. Adjust the trimming capacitor to minimum colour scroll

Remove the short-circuit and the resistor.

PAL phase, 40LC17, PAL amplitude, 40PC1 8:

Adjust "COLOUR" to level 60.

Feed a test signal with colourless R-Y/B-Y fields to the receiver.

Adjust the coil 40LC17 (PAL phase) and the p otentiometer 40PC18 (PAL amplitude) to minimum colour in the colourless R-Y/B-Y fields of the test picture.

SECAM justeringer

Under disse justeringer er det en fordel at fjerne lydmodulet PCB20.

Modtageren tilføres et SECAM farvebar-signal.

Identifikation, 40LC14:

Et DC-voltmeter tilsluttes ben 21 på 40IC01. Spolen 40LC14 justeres til maksimal spænding.

B-Y demodulator, 40LC05:

Et oscilloscop tilsluttes ben 3 på 40IC01. Spolen 40LC05 justeres, til de farveløse bjælker i farvebaren har samme niveau som linjeblankingen.



R-Y demodulator, 40LC01:

Et oscilloscop tilsluttes ben 1 på 40IC01. Spolen 40LC01 justeres, til de farveløse bjælker i farvebaren har samme niveau som linjeblankingen.



Cloche filter, 40LC23:

Et oscilloscop tilsluttes ben 15 på 40IC01. Spolen 40LC23 justeres, til farvebjælkernes amplitude har samme niveau.

Lydjusteringer

5,5MHz, 20LS80, 5,74MHz, 20LS03:

Modtageren tilføres et stereo-signal indeholdende både 5,5MHz og 5,74MHz med modulation. Et AC-voltmeter tilsluttes ben 8 på 20IC01. Spolen 20LS03 justeres til maksimal amplitude. AC-voltmeteret tilsluttes ben 8 på 20IS88. Spolen 20LS80 justeres til maksimal amplitude.

54kHz, 20LS17:

Modtageren tilføres et stereo-signal indeholdende både 5,5MHz og 5,74MHz med modulation. Et oscilloscop tilsluttes ben 26 på 20IS21. Spolen 20LS17 justeres til maksimal amplitude.

Kanalseparation, 20PS92:

Modtageren tilsluttes et stereo-signal uden modulation i venstre kanal.

Et oscilloscop tilsluttes ben 5 på 20BS15. Potentiometeret 20PS92 justeres til minimal amplitude.

6,0MHz, 20LS86:

Modtageren tilføres et 6,0MHz lydsignal med modulation.

Et AC-voltmeter tilsluttes ben 8 på 20IS88. Spolen 20LS86 justeres til maksimal amplitude.

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SECAM adjustments:

It is advisable to remove the sound module PCB20 before carrying out these adjustments.

Feed a SECAM colourbar signal to the receiver.

Identification, 40LC14:

Connect a DC voltmeter to pin 21 of 40IC01. Adjust coil 40LC14 to maximum voltage.

B-Y demodulator, 40LC05:

Connect an oscilloscope to pin 3 of 40IC01. Adjust coil 40LC05 until the colourless bars of the colourbar are on the same level as the line blanking.



R-Y demodulator, 40LC01:

Connect an oscilloscope to pin 1 of 40IC01. Adjust coil 40LC01 until the colourless bars of the colourbar are on the same level as the line blanking.



Cloche filter, 40LC23:

Connect an oscilloscope to pin 15 of 40IC01. Adjust coil 40LC23 until the amplitudes of the colour bars are on the same level.

Sound adjustments.

5.5MHz, 20LS80, 5.74MHz, 20LS03:

Feed a modulated stereo signal containing both 5.5MHz and 5.74MHz to the receiver. Connect an AC voltmeter to pin 8 of 20IC01. Adjust coil 20LS03 to maximum amplitude. Connect the AC voltmeter to pin 8 of 20IS88. Adjust coil 20LS80 to maximum amplitude.

54kHz, 20LS17:

Feed a modulated stereo signal containing both 5.5MHz and 5.74MHz to the receiver. Connect an oscilloscope to pin 26 of 20IS21. Adjust coil 20LS17 to maximum amplitude.

Channel separation, 20PS92:

Feed a stereo signal without modulation in the lest channel to the receiver.

Connect an oscilloscope to pin 5 of 20BS15.

Adjust the potentiometer 20PS92 to minimum amplitude.

6.0MHz, 20LS86:

Feed a 6.0MHz modulated sound signal to the receiver.

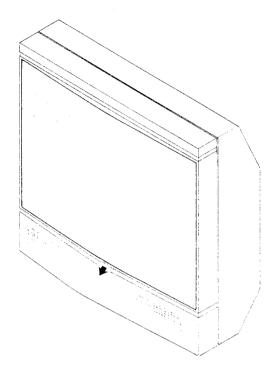
Connect an AC voltmeter to pin 8 of 20IS88. Adjust coil 20LS86 to maximum amplitude.

ADSKILLELSE

Demontering af kontrastskærmen

DISASSEMBLY

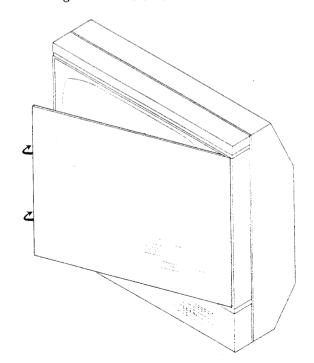
Removal of contrast screen



Træk ud i kontrastskærmens nederste kant.

Pull the lower edge of the contrast screen outwards.

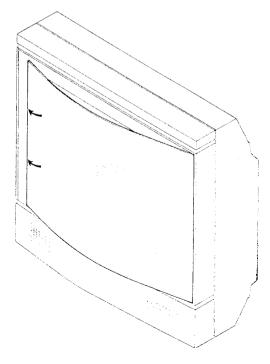
Montering af kontrastskærmen



Monter skærmen i rillen af det ene sidepanel.

Bøj skærmen frem og monter skærmen i rillen af det modsatte sidepanel.

Mounting of contrast screen



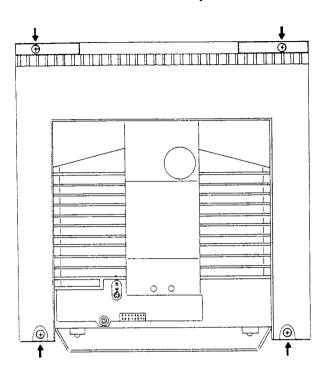
Fit the screen into the groove in one of the side panels.

Flex the screen slightly outwards and fit the creen into the groove in the opposite side panel.

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Bagpart

Rear part

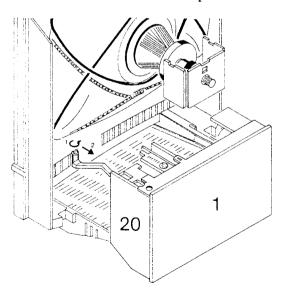


De fire skruer løsnes, og bagparten trækkes lige bagud.

Loosen the 4 screws and then remove the rear part by pulling straight outwards.

Serviceposition

Service position



Chassiset sættes i servicepositionen, ved at det trækkes udad og løftes op.

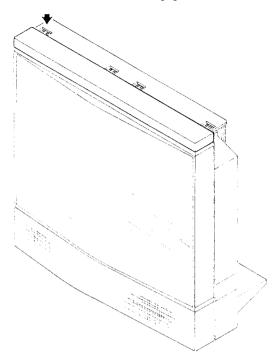
Ledningsbakken kan løsnes fra kabinettet, ved at dets bageste ende drejes mod uret og dernæst trækkes fremad.

Place the chassis in the service position by pullirg it outwards and lifting it.

The cable tray can be detached from the cabinet y turning its rear end anticlockwise and then pulling it forwards.

Toppanel





Panelet løsnes i den ene side, ved at låsen aktiveres med en skruetrækker.

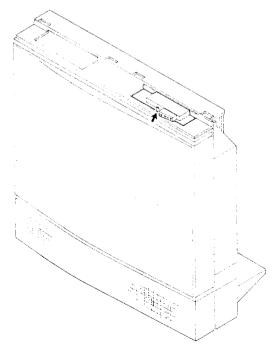
Toppanelet kan nu fjernes.

Loosen the panel in one side by releasing the lock with a screwdriver.

The top panel can now be removed.

PCB 05 IR-modtager

PCB 05 IR-receiver



Låsen løsnes med en skruetrækker, og PCB'en tages ud, ved at den løftes i den forreste kant.

NB! Ved demontering af IR-modtagerens hus skal IR-modtagerdioden loddes ud.

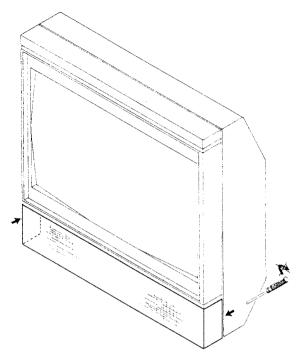
Release the lock with a screwdriver and remove the PCB by lifting it at its front.

Note! If the housing of the IR-receiver is tobe removed, the IR-receiver diode must be desoldered.

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Højttalerpanel

Loudspeaker panel



En skruetrækker sættes forsigtigt ind mellem højttalerpanelet og kabinettet i apparatets højre side.

Højttalerpanelet løsnes med et let tryk med skruetrækkeren og skubbes dernæst mod venstre.

Med et let tryk mod højttalerpanelets venstre hjørne frigøres panelet fuldstændig.

Carefully insert a screwdriver between the loudspeaker panel and the cabinet in the right-hand side of the set.

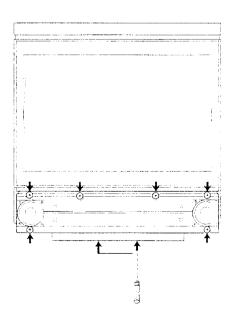
Loosen the loudspeaker panel by exerting a light pressure with the screwdriver.

Push the loudspeaker panel towards the left.

A light push against the left corner of the loudspeaker panel will now release the panel completely.

Højtalerbaffel

Loudspeaker baffle



De seks skruer fjernes.

Højttalerbafflen løsnes, ved at de to låse i bunden af apparatet aktiveres, hvorefter bafflen trækkes fremad og opad.

Remove the 6 screws.

Loosen the loudspeaker baffle by using a screwdriver to release the 2 locks at the base of the set. Then pull the baffle outwards and upwards.

REPARATIONS-TIPS

REPAIR TIPS

Chassis Modifications

Tabel 1

| Picture Type tub | e Videocolor | ITT |
|---------------------|--------------|-------------|
| 3140 | 8053219*1*2 | 8053219*1 |
| 3141 | 8053219*2 | 8053219 |
| 3143 | 8053272 | 8053272*2 |
| 3144 | 8053272 | 8053272*2 |
| 3145 | 8053272*1 | 8053272*1*2 |
| 3146 | 8053272 | 8053272*2 |
| 3147 | 8053272 | 8053272*2 |

^{*1} Change IR01 8341123 - 8341124

Tabel 2

| Picture Pos. No. tube | Videocolor | ITT |
|--------------------------|-----------------|-----------------|
| RG 05 | 270 kΩ | 100 kΩ |
| RG11 | 10 kΩ | 4.7 kΩ |
| RG 12 | 3.9 kΩ | 1.2 kΩ |
| RF17 | 3.3 Ω - 5011622 | 3 Ω - 5011614 |
| RL 54 | 10 kΩ | 100 kΩ |
| CL 48 | 12 nF - 4130429 | 11 nF - 4130435 |
| CL 53 | 10 kΩ | 100 kΩ |

Stand-by

Apparatet er i stand-by og kan ikke startes op. Stand-by indikatoren lyser.

Kontroller, om der er kommunikation på I²C bussen. Dette måles på ben 31 og 32 af 01IR01.

Apparatet tændes og forsøger at starte op tre gange, hvorefter det går i stand-by.

Det skyldes, at sikkerhedskredsløbet på ben 28 af 01IL14 aktiveres.

Kontroller kredsløbet omkring følertransistoren 01TL17.

Stand-by

The TV set is in stand-by and cannot start up. The stand-by indicator lights.

Check whether there is communication on the I²C bus

This is measured on pins 31 and 32 of 01IR(1.

The TV set is switched on, tries to start up three times and then returns to stand-by. This is due to the activation of the protection circuit on pin 28 of 011L14.

Check the sensor circuit including the transistor 01TL17.

^{*2} Change chassis as shown in Tabel 2

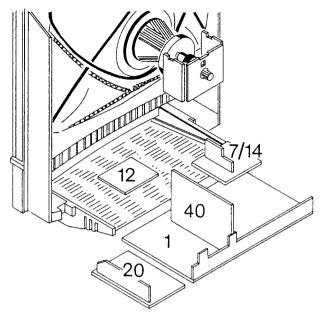
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Servicering af PAL/SECAM dekoderen PCB40

Når PAL/SECAM dekoderen PCB40 serviceres, kan lydmodulet PCB20 fjernes.

Servicing PAL/SECAM decoder PCB40

When servicing the PAL/SECAM decoder PCB40, the sound module PCB20 can be removed.



Desuden kan tekstmodulet PCB07 eller OSD-modulet PCB14 fiernes.

Apparatet viser nu billede, men der er ingen lyd, teletekst eller display på skærmen.

Pil i øverste højre hjørne lyser.

Båndkabel mellem PCB40 og PCB02

Det sekspolede båndkabel mellem PCB40 og PCB02 må ikke monteres før 30 sekunder efter, apparatet er slukket.

Det skyldes, at RGB-udgangen har stelforbindelse gennem det sekspolede båndkabel.

Fokusledning

Indstråling fra fokusledningen kan hindre datakommunikationen på PCB12. Derfor må fokusledningen ikke komme i nærheden af PCB12, og ved samling af apparatet bør fokusledningen monteres som vist på tegningen. The text module PCB07 or the OSD-module can also be removed. A picture can now be displayed on the screen, but there is no sound, teletext or display on the screen.

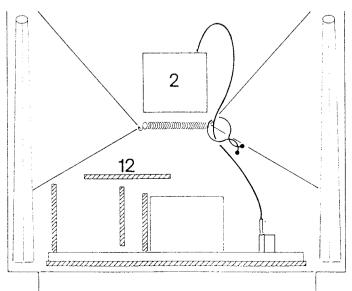
An arrow in the upper righthand corner lights.

Ribbon cable between PCB40 and PCB02

The 6-pin ribbon cable between PCB40 and PCB02 must not be mounted until 30 seconds after the set has been switched off. This precaution is necessary because the RGB output is connected to ground via the 6-pin cable.

Focus wire

Interference from the focus wire can impede the data communication on PCB12. Consequently, the focus wire must be kept away from PCB12, and when assembling the set the focus wire should be mounted as shown on the drawing.



SLUTAFPRØVNING

Denne afprøvning kan benyttes som kontrol, efter at reparationen er afsluttet.

Tilslutninger

TV'et tilsluttes lysnettet og et antennesignal.

Nærbetjening

Hovedafbryderen aktiveres - Stand-by indikator lvser

P aktiveres

→ Starter på P1, hvis TV'et har været frakoblet netspændingen, og ellers på sidst benyttede program

FINAL TEST

This test may be used as a check-up after the repair has been carried out.

Connections

Connect the TV set to the mains supply and an aerial signal.

Direct Operation

Activate the mains switch → The stand-by indicator lights

Activate P

→ Starts on P1 if the TV set has been disconnected from the mains supply or else on the programme last seen

Beolink 1000 fjernbetjening

Tænd

TV

→ Starter på sidst benyttede program

0 - 31

Starter på valgte programnummer

Beolink 1000 Remote Control

Switching On

TV

→ Starts on the programme last

0-31

Starts on the preset No selected

Tune

Direkte frekvensvalg

Indstilling af ønsket frekvens, f.eks. 543MHz (kanal 30), på et programnummer ml. 0 og 31.

Omregningstabel for frekvens/kanal findes i betjeningsvejledningen (Frekvensoversigt).

GO TO [5] [4] [3] → Grønt display → Gult display

Tuning

Direct frequency selection

Setting of a desired frequency, e.g. 543MHz (channel 30), on a preset No between 0 and 31.

Conversion tabel for frequency/channel, see owner's manual (List of frequencies).

GO TO

→ Green display

5 4 3

→ Yellow display

Store

Den indstillede frekvens kan lægges i hukommelsen på et programnummer mellem 1 og 31.

STORE

→ Rødt display

1

→ Programnummer 1 vælges

STORE

→ Grønt display Stand-by

[1]

→ Den på programnummer 1 lagrede frekvens vises

Store

The set frequency can be stored on a preset No between 0 and 31.

STORE

→ Red display

1

→ Selection of preset No 1

SOUND

→ Green display

Stand-by

The frequency stored on the

selected preset No is 3 hown

Tune

Søgning

Søgning under det valgte programnummer (0-31)

→ Søgning stopper på nærmeste senderfrekvens

Tuning

Search

Search on the selected preset No (0-31)

or ≥>

→ The search stops at tle closest transmitter frequency

Finindstilling

Ønskede frekvens er fundet. Billedet står ikke skarpt.

GO TO

→ Grønt display

eller >>

→ FT (fine tune) kan varieres op (+) eller ned (-)

Fine Tuning

The frequency desired has been found. The picture is not sharp.

GO TO

→ Green display

<< or >>>

→ FT (fine tuning) may) e varied up (+) or dow: (-)

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Teletekst

Kun ved apparater med indbygget teletekst.

→ Skifter til tekst-mode

Vælg en side, f.eks. 100

GO TO 1 0 0 STORE 2 STORE

→ Tekstside 100 vises → Tekstside 100 lagres på

hukommelsesside 2

Stand-by

TEXT 2

→ Hukommelsesside 2, tekstside

100 vises

Billede

PICTURE

→ »BRILLIANCE xx«, grønt

display

r eller PICTURE

→ Lys varieres mellem 0 og 31

→ »COLOUR xx«, grønt display → Farvemætningen varieres

r eller

mellem 0 og 60

→ »CONTRAST xx«, grønt

ellen V

PICTURE

display → Kontrast varieres mellem 0 og

Teletext

Only applies to TV sets with built-in teletext.

→ Switches into the text mode

Select a page, e.g. 100

GO TO 1 0 0 STORE 2 STORE → Shows text page 100 → Text page 100 is stored on

memory page 2

Stand-by

TEXT 2

→ Shows memory page 2, text

page 100

Picture

PICTURE

→ "BRILLIANCE xx", green

display

or 🔽

→ Brilliance varies in the range

from 0 to 31

PICTURE

→ "COLOUR xx", green display

or 🔽

→ Colour saturation varies in the

range from 0 to 60 → "CONTRAST xx", green

display

PICTURE or 🔽

→ Contrast varies in the range

from 0 to 31

Lvd

SOUND

SOUND

eller V

→ »VOLUME xx«, grønt display

→ volume varieres mellem 0 og

→ »BALANCE x«, grønt display

→ Balance varieres mellem 8 og eller

SOUND eller 🔽 → »TREBLE x«, grønt display → Diskantniveauet varieres mellem 5 og -4

→ »BASS x«, grønt display

→ Basniveauet varieres mellem 5 og -4

SOUND

SOUND

→ »VOLUME HP xx«, grønt display

eller V

eller 💟

→ Volume i hovedtelefon varieres mellem 0 og 32

Sound

SOUND \bigcirc or \bigcirc

→ "VOLUME xx", green display

→ Volume level varies in the range from 0 to 40

SOUND or 💟 → "BALANCE x", green display

→ Balance level varies in the range from 8 to -8

SOUND ∕or ∨

→ "TREBLE x", green display → Treble level varies in the

range from 5 to -4

SOUND \bigcirc or \bigcirc → "BASS x", green display

→ Bass level varies in the range from 5 to -4

SOUND

"VOLUME HP xx", green display

or 🔽

Volume level in head phones varies in the range from 0 to

32

To sprog

Ved modtagelse af to-sprogede udsendelser kan der vælges mellem sprog A og B.

TURN

→ Skifter mellem sprog A og sprog B. Indikeres af to røde pile i øverste højre hjørne $(\blacktriangleleft = A, \blacktriangleright = B).$

Dual Languages

When receiving dual language programmes, language A or B may be selected.

TURN

→ Switches between language A and language B. This is indicated by two red arrows in the upper righthand corner $(\blacktriangleleft = A, \blacktriangleright = B)$

Stereo lyd

Ved modtagelse af stereo-lyd skifter TV'et automatisk til stereo. Stereo indikeres af to røde pile i øverste højre hjørne.

TURN

→ Mono-lyd, røde pile slukket

→ Stereo-lyd, to røde pile i øverste højre hjørne

Ved skift til anden stereo-udsendelse vil TV'et automatisk skifte til stereo.

Shift funktioner

Tidskonstant

SHIFT 2

→ Tidskonstanten ændres til en perfekt synkronisering mellem TV'et og en videobåndoptager (»toggle«-funktion). Indikeres med »A/V« efter programnummeret på skærmen

System B/System L/System M

SHIFT 3

→ Systemskift (»toggle«-funktion)

Billede

Der foretages kontrol af geometri, højspænding, fokus, følsomhed, hvid balance, farvespring, opløsning, slæb, skygger, interferens og gråskala.

Stereo Sound

When receiving stereo sound, the TV set automatically switches to stereo. Stereo is indicated by two red arrows in the upper righthand corner.

TURN

 Mono sound, no red arrows in the upper righthand corner

TURN

→ Stereo sound, two red arrows in the upper righthand corner

When switching to another stereo transmission, the TV-set automatically switches to stereo sound.

Shift Functions

Time constant

SHIFT 2

The time constant is changed into a perfect synchronization between the TV set and a video recorder (toggle function). This is indicated by "A/V" after the preset No

System B/System L/System M

SHIFT 3

→ Change of system (toggle function)

Picture

Check geometry, high voltage, focus, sensitivity, white balance, colour switching, resolution, ringing, ghosts, interference and grey scale.

ISOLATIONSTEST

Ethvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stelbenet i en af højttalerstikdåserne.

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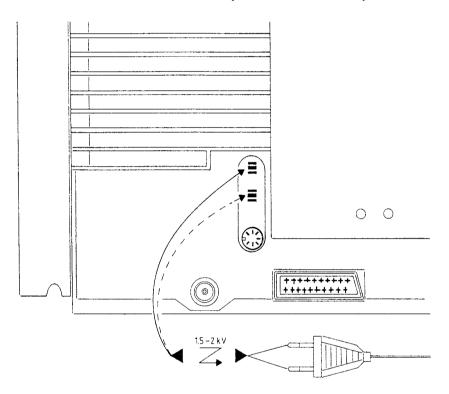
INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to the chassis pin of one of the loudspeaker sockets.



OBS!

For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn the down again.

| TECHNICAL SPECIFICATIONS | BEOVISION MX 4500 |
|-----------------------------|----------------------------------------------------------|
| Picture tube size | 70 cm - 28" |
| Visual picture size | 66 cm – 26" |
| Picture tube | Full square, black matrix, In line 110 degrees |
| Cabinet | Red, white, black, blue and grey |
| Operation | Beolink 1000, Audio Aux Link |
| Screen display | Programme No., Frequency, Picture and Sound adjustments |
| Sound system | Stereo decoder A2 built-in, Bilingual sound A2 built-in |
| | Stereo enhancement, mono pseudo stereo |
| Nicam stereo | Prepared for Nicam stereo module |
| Teletext | 5 languages: S-D-GB-I-F |
| Teletext memory | 4 complete pages, + 4 page numbers for |
| | each TV programme, total 128 numbers |
| Number of TV programmes | 32 |
| Digital tuning system | VHF + S + Hyper + UHF channels |
| Tuner range | 45 – 855 MHz |
| Transposer French L system | Built-in |
| Satellite programmes | Prepared for Beosat RX, AV Link 21-pin |
| | Beolink 1000 operation |
| Speaker system, stereo | 2 Log Line |
| Speaker units | 2 x 7.5 cm - 3" |
| Sound power output RMS | 2 x 15 watts/8 ohms |
| Sound power output music | 2 x 18 watts/8 ohms |
| Harmonic distortion | <0.5% |
| Intermodulation | <1% |
| Frequency range ±1.5 dB | 20-20,000 Hz |
| Power bandwidth | 20-12,500 Hz |
| Signal-to-noise ratio | >50 dB |
| Bass control | +16 -6 dB/60 Hz |
| Treble control | ±10 dB/10,000 Hz |
| Power supply | 180-260 volts/50-60 Hz |
| Power consumption | 85 (63-150) watts |
| Stand by | 5 watts |
| Dimensions W x H x D/Weight | 65 x 67.5 x 46.5 cm/40.3 kg |
| Connections: | |
| AV Link | 21-pin |
| Audio Aux Link | 7-pin |
| Stereo headphones | Jack, separate volume control |
| External speakers | 8 ohms |
| Accessories: | |
| Stand | ST 5000: 3076 |
| Stand MX 4500 + VX 3000 | ST 5000: 3076 + VX Shelf: 3077 |
| Beosat RX receiver, AV Link | 3026 |
| Nicam stereo kit, EU | 3037 |
| Nicam stereo kit, GB | 3040 |
| AVX 1 Expander box 3099 | 3 sockets AV Link 21-pin, 2 sockets Audio Aux Lir∢ 7-pin |
| Loop amplifier | 3098 |

Type Survey

| Туре | | Colour | System | Teletext | Trinsposer |
|------|----------|-----------|---------|----------|------------|
| 3201 | EU-MULTI | PAL/SECAM | B-G-I-L | × | × |
| 3203 | AUS | PAL/SECAM | B-G | X | |
| 3204 | 1 | PAL/SECAM | B-G | × | |
| 3206 | EU-FTZ | PAL/SECAM | B-G | × | |
| 3207 | Ε | PAL/SECAM | B-G | X* | |

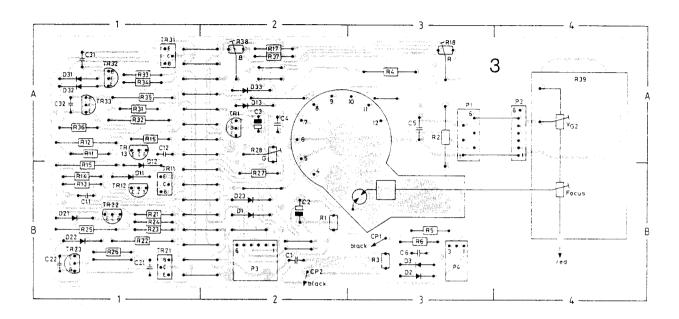
^{*6} character S-D-GB-I-F-E

Subject to change without notice

Bang & Olufsen

PRINTDRAWINGS AND OSCILLOGRAMS

PCB3, Video Output



PCB1, Basic Board

See page 2-5

PCB7, Teletext

See page 2-4

PCB20, Sound

See page 2-4

AM/FM Sound

See page 2-4

PCB40, Pal/Secam Decoder

See page 2-7

DIAGRAM A TUNER AND IF SYSTEM

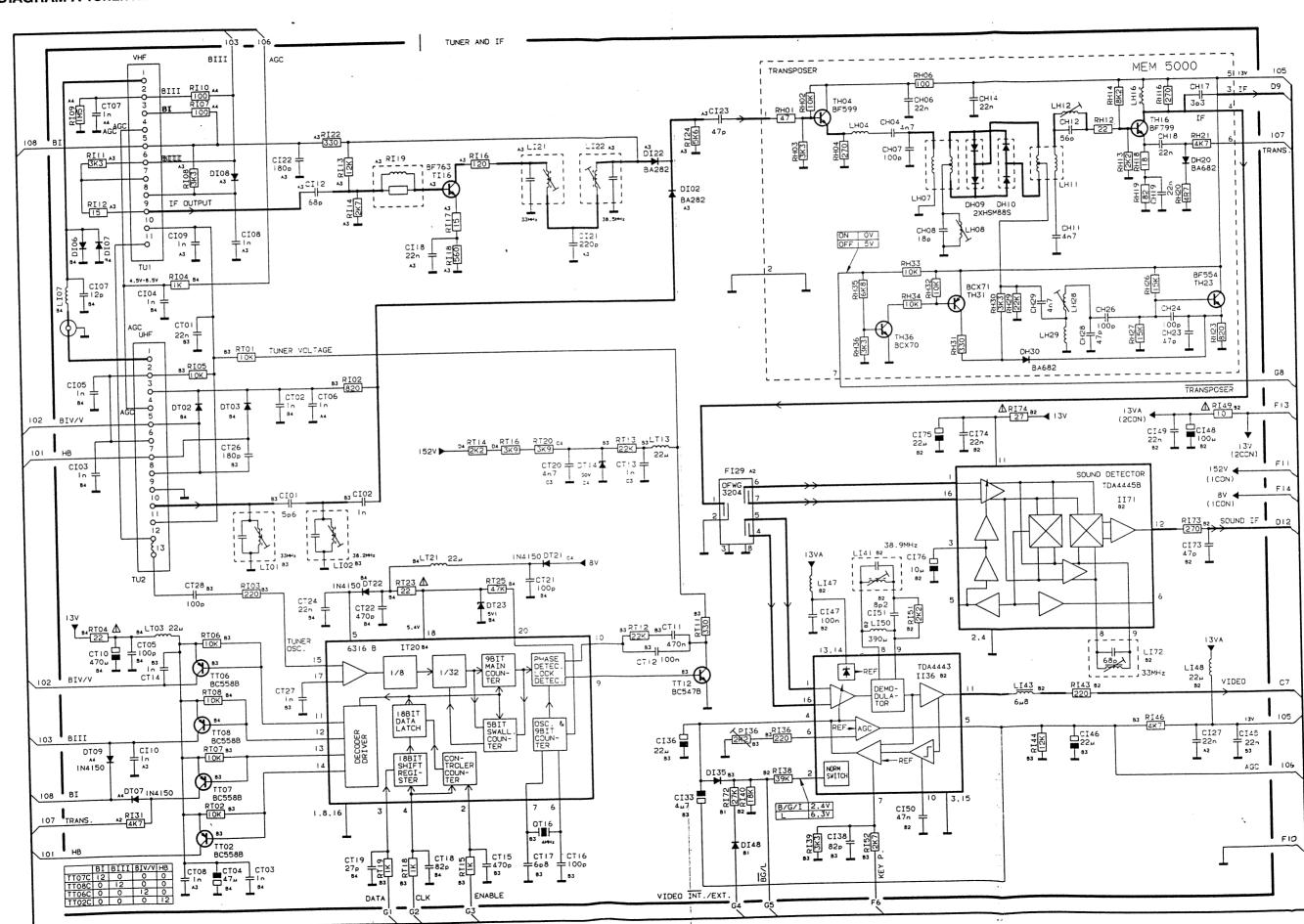
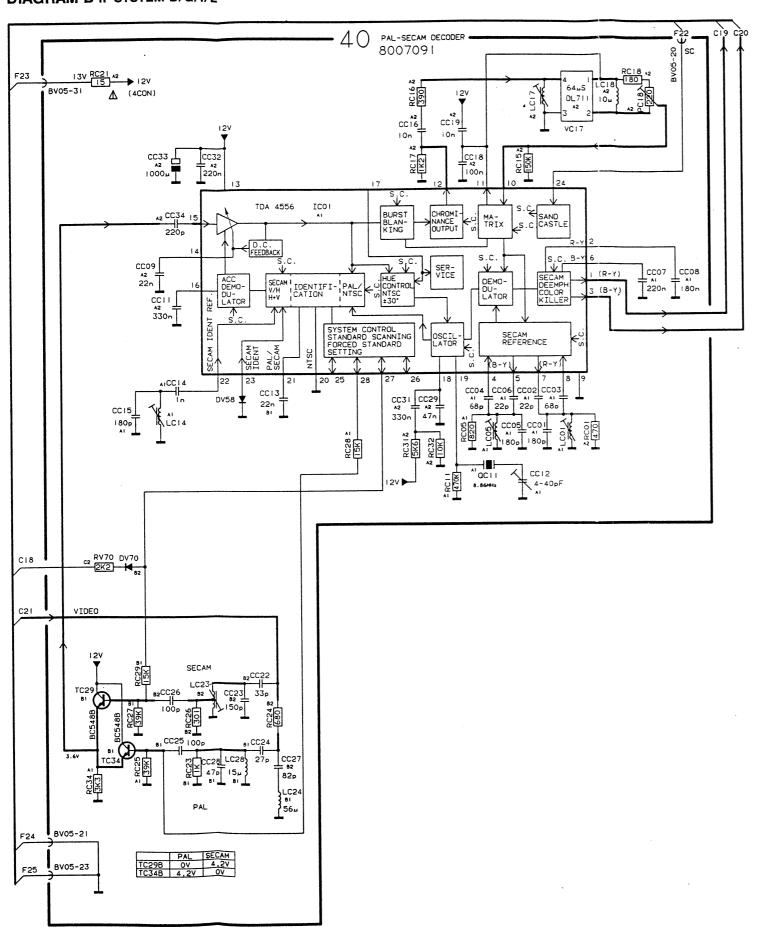


DIAGRAM B IF SYSTEM B/G/I/L



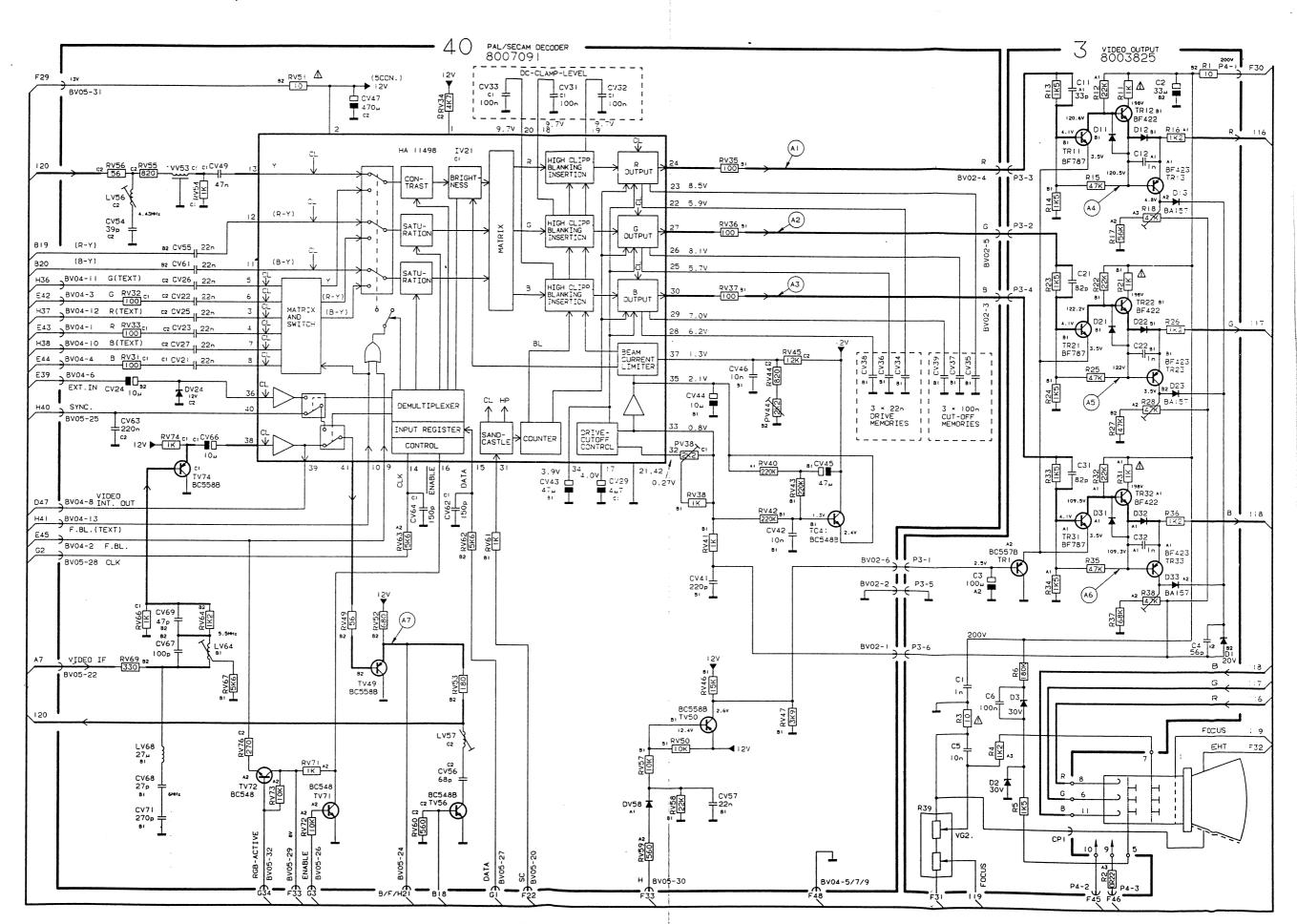
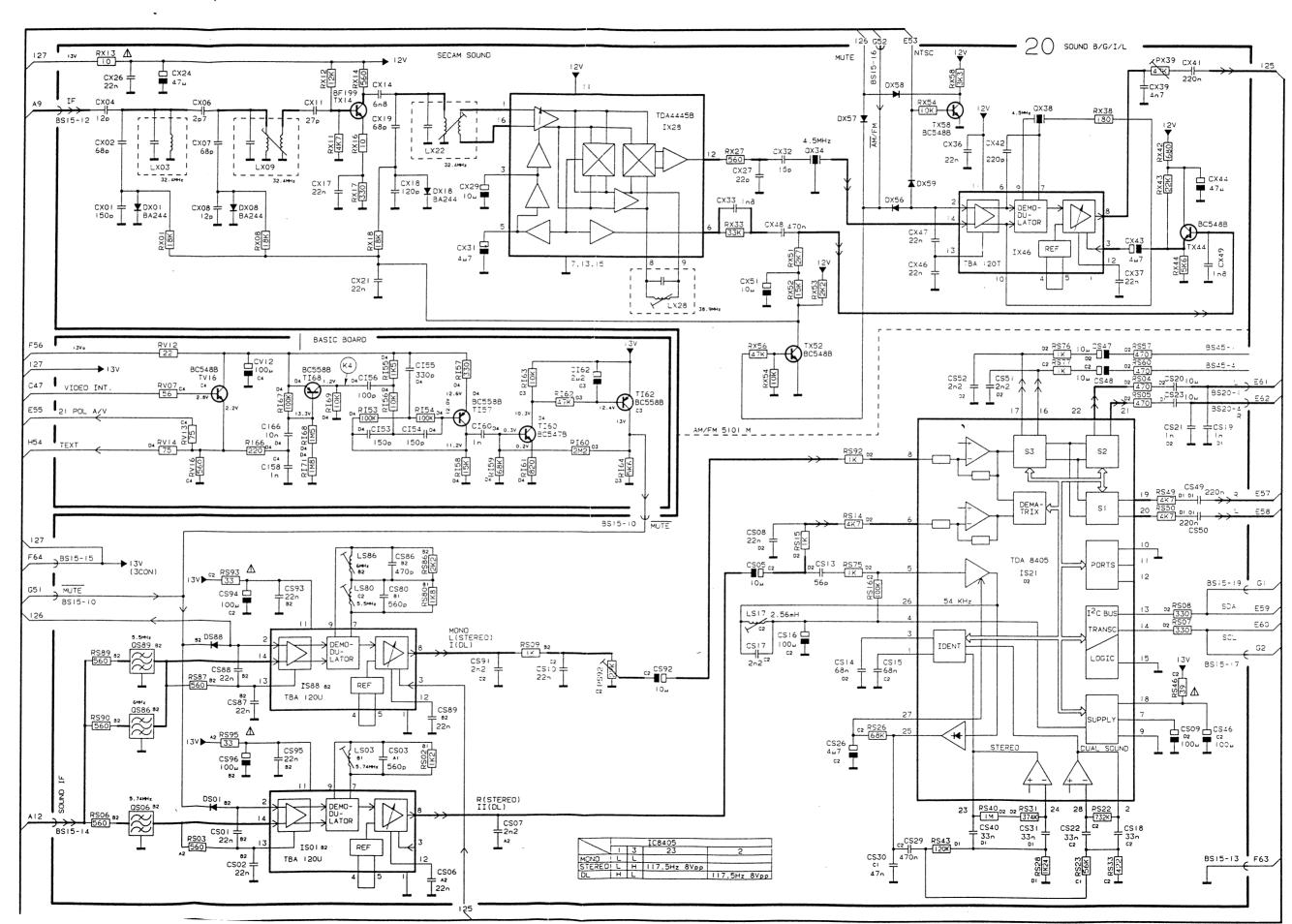


DIAGRAM D STEREO DECODER, SOUND CONTROLS



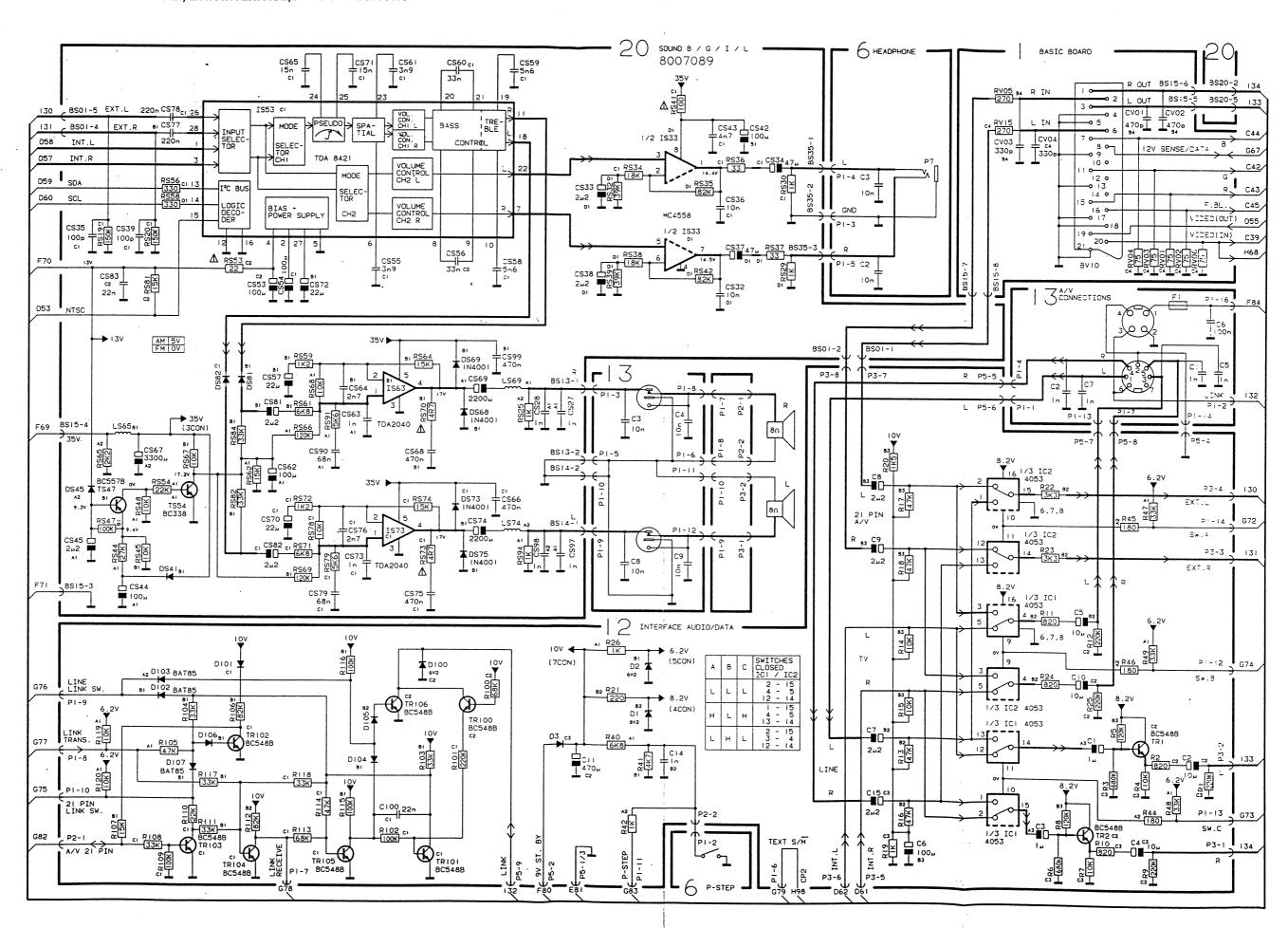


DIAGRAM F POWER SUPPLY, DEFLECTION

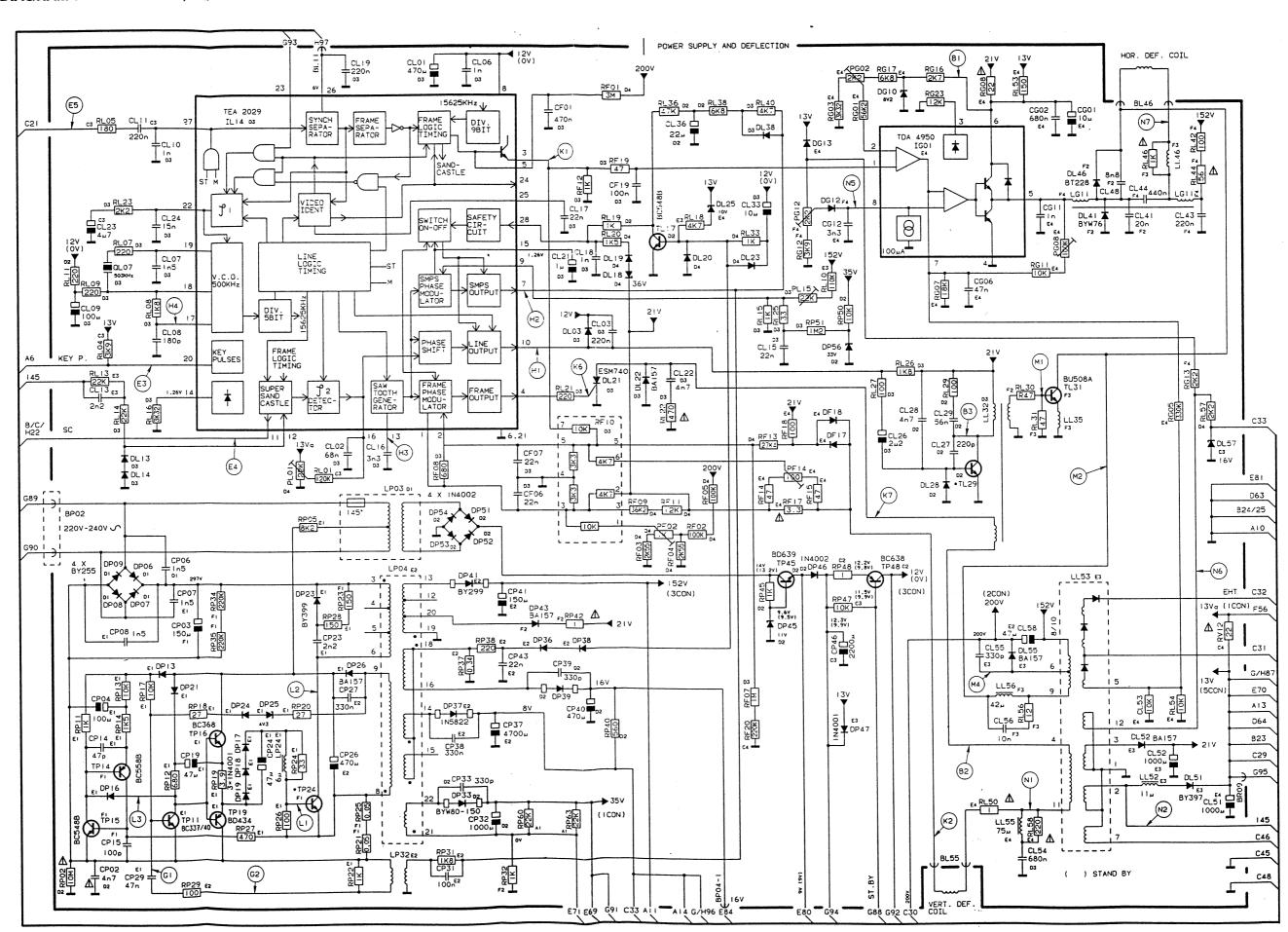


DIAGRAM G IR-RECEIVER, CONTROL, MAINS SWITCH

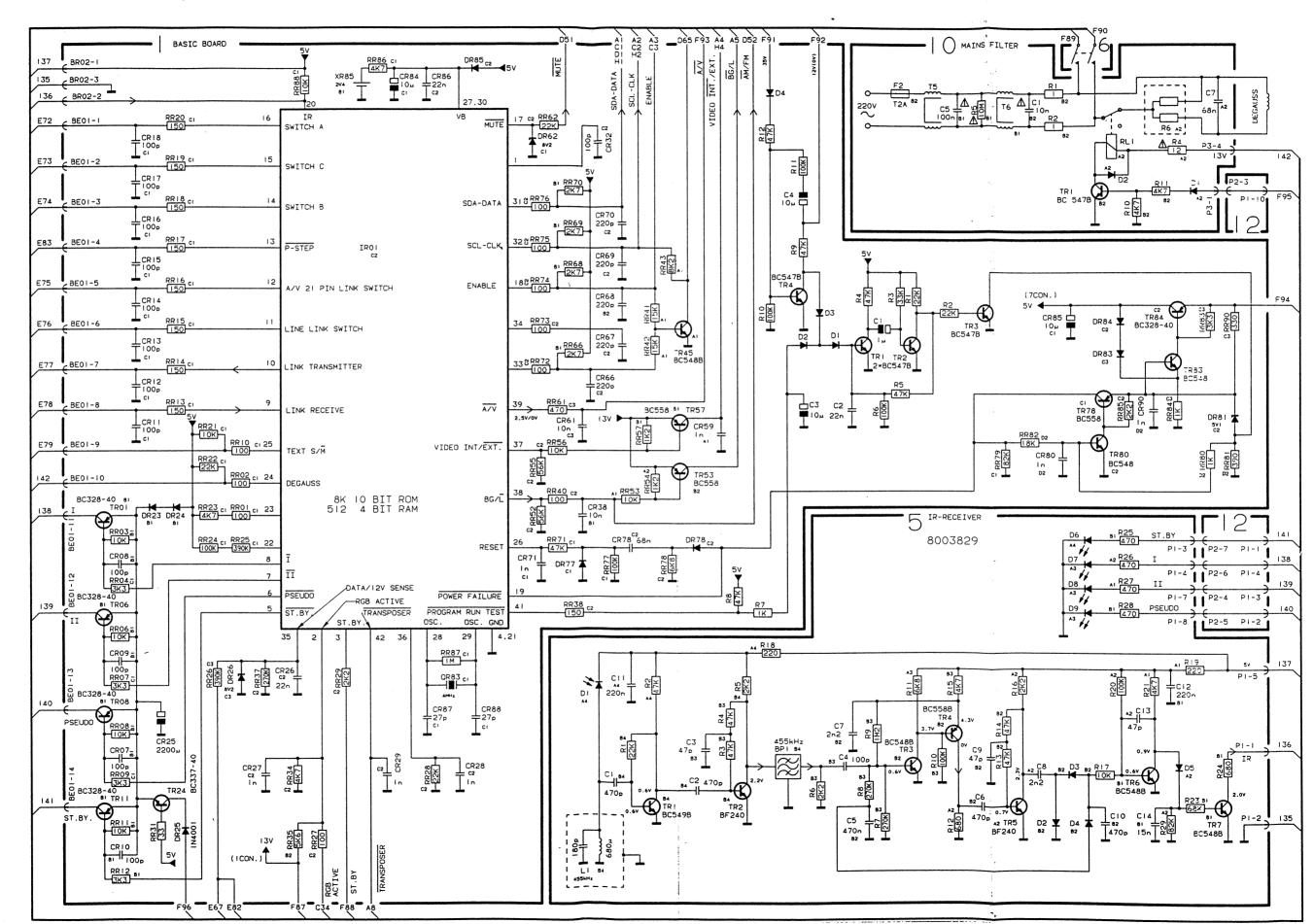
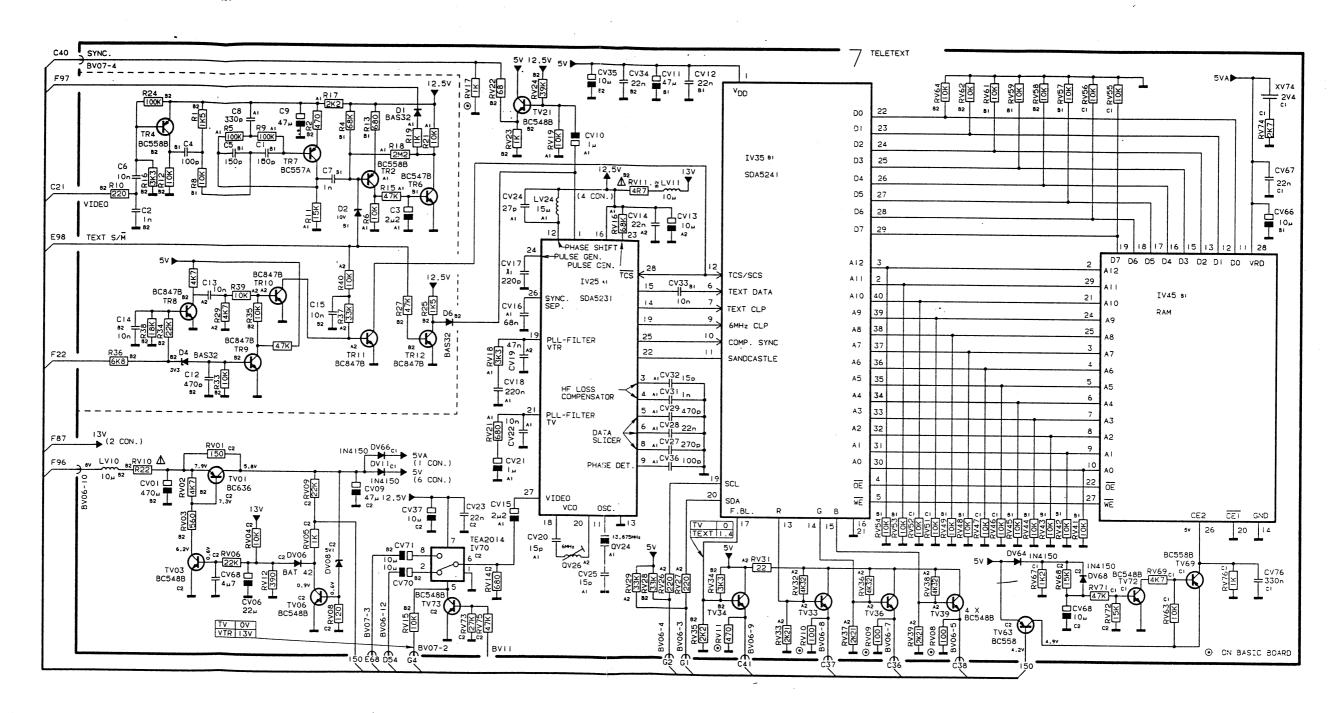
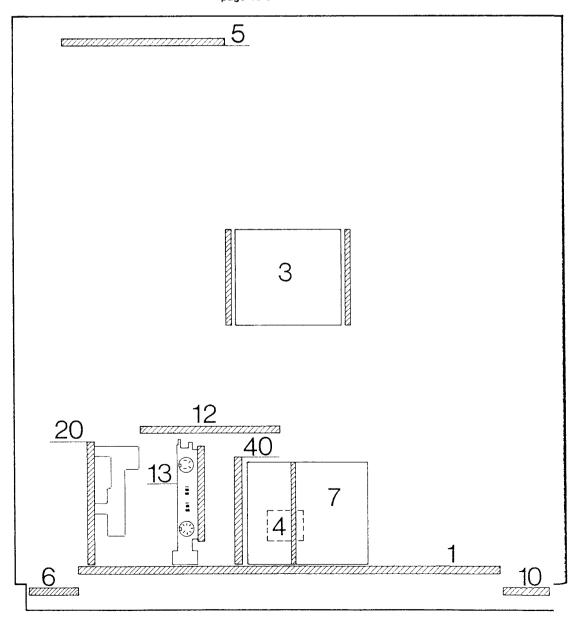


DIAGRAM H TELETEXT DECODER



| 1 | Basic Board diagr. A-D-E-F-G page 10-2, 5, 6, 7, 8 | 10 | Mains Filter diagr. G page 10-8 |
|---|----------------------------------------------------|----|----------------------------------------------|
| 3 | Video Output diagr. C page 10-4 | 12 | Interface Audio/Data diagr. E-G page 10-6, 8 |
| 4 | Speaker Panel diagr. E page 10-6 | 13 | A/V Connections diagr. E page 10-6 |
| 5 | IR-Receiver diagr. G page 10-8 | 20 | Sound B/G/I/L/M diagr. D-E page 10-5, 6 |
| 6 | Program Step/Headphone diagr. E-G page 10-6, 8 | 40 | Pal/Secam Decoder diagr. B-C page 10-3, 4 |
| 7 | Teletext diagr. H page 10-9 | | |



INDHOLDSFORTEGNELSE

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LIST OF ELECTRICAL PARTS

| 17 | 20 | 44 | 49 | 103 | 209 | 217 | 221 |
|-------------------------------------------------------|-----|---------|-----|-----|----------|------------|-----|
| B • • • • • • • • • • • • • • • • • • • | E B | O E C B | E 0 | 8 5 | <u> </u> | A C Violet | |
| Resistors not referred to are standard, see page 3-12 | | | | | | | |

PCB 1, 8053220 Basic Board incl. Transposer

PCB 1, 8053276 Basic Board excl. Transposer FTZ

| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% RF13 5021130 27.4 kΩ 1% RL56 5021132 12 Ω 2W CL28 4010063 4.7 nF 10% 63V CP39 4010062 330 pF 10% 63V | | 6275770 6270374 | Cable tray w/main of Focus cable | cable | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|----------------------------------|-------|---------|-------------|
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% RF13 5021130 27.4 kΩ 1% RL56 5021132 12 Ω 2W CL28 4010063 4.7 nF 10% 63V CP39 4010062 330 pF 10% 63V CL44 4130457 330 nF 250V CP40 4200275 470 μF -10+100% 40 CL48 4130458 8.8 nF 1500V CP41 4200862 100 μF 250V LG11 8022305 Coil LL56 8022307 Coil 42 μH LL46 8022306 Coil LP04 8014098 Transformer | BP04 | 7220462 | Plug 3/3 pole | | | |
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% RF13 5021130 27.4 kΩ 1% RL56 5021132 12 Ω 2W CL28 4010063 4.7 nF 10% 63V CP39 4010062 330 pF 10% 63V CL44 4130457 330 nF 250V CP40 4200275 470 μF -10+100% 40 CL48 4130458 8.8 nF 1500V CP41 4200862 100 μF 250V LG11 8022305 Coil LL56 8022307 Coil 42 μH | LL53 | 8014097 | Transformer | | | |
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% RF13 5021130 27.4 kΩ 1% RL56 5021132 12 Ω 2W CL28 4010063 4.7 nF 10% 63V CP39 4010062 330 pF 10% 63V CL44 4130457 330 nF 250V CP40 4200275 470 μF -10+100% 44 | | | | | | |
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% RF13 5021130 27.4 kΩ 1% RL56 5021132 12 Ω 2W CL28 4010063 4.7 nF 10% 63V CP39 4010062 330 pF 10% 63V | CL48 | 4130458 | 8.8 nF 1500V | CP41 | 4200862 | 100 μF 250V |
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D RF09 5021129 36.5 kΩ 1% RL10 5021131 110 kΩ 1% | | | | | | |
| TR42 8320509 20 BC 548B DP39 8300647 221 S 217D | | | | | | |
| TR42 8320509 20 BC 548B | D Eng | 5021120 | 36.5 kO 1% | RI 10 | 5021131 | 110 10 1% |
| | DP39 | 8300647 | 221 S 217D | | | |
| IG01 8340764 103 TDA 4950 | TR42 | 8320509 | 20 BC 548B | | | |
| | IG01 | 8340764 | 103 TDA 4950 | | | |

PCB 3, 8003825 Video Output

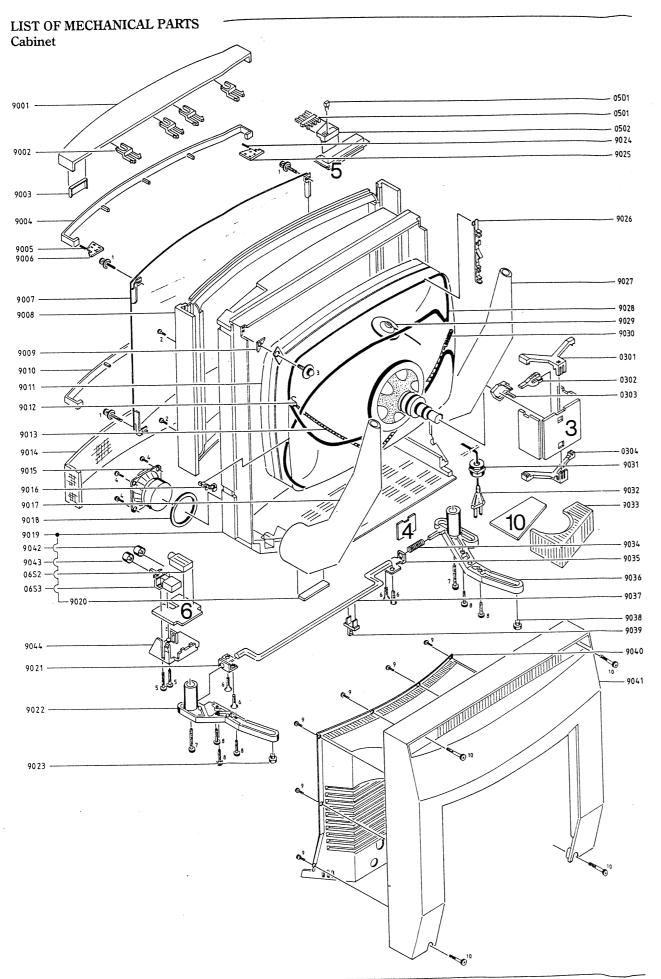
| | 6275770 | Focus cable | | | | | |
|----------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|
| All other parts are identical with those on pp 3-1 - 3-4 | | | | | | | |
| TR1 TR11 TR12 TR13* TR21 | 8320503 8320440 8320505 8320631 8320440 | 20 44 49 17 44 | BC 557B BF 869 BF 422 BF 423 BF 869 | TR22 TR23* TR31 TR32 TR33* | 8320505 8320631 8320440 8320505 8320631 | 49 17 44 49 17 | BF 422 BF 423 BF 869 BF 422 BF 423 |
| D1 D2-3 D11-12 D13 | 8300194 8300210 8300058 8300518 | 209 209 209 217 | Z20V 5% Z30V 5% 1N 4148 BA 157 | D21-22 D23 D31-32 D33 | 8300058 8300518 8300058 8300518 | 209 217 209 217 | 1N 4148 BA 157 1N 4148 BA 157 |
| R2 R3 R11 R12 R15 R18 R21 R22 | 5020812 5020495 5020758 5020697 5020774 5370350 5020758 5020697 | 10 Ω 1 kΩ 22 kΩ 47 kΩ 47 kΩ 1 kΩ | Ω 10% 0.4W 10% 1W 5% 0.3W Ω 5% 1W Ω 5% 1W Ω 20% 0.1W 5% 0.3W Ω 5% 1W | R25 R28 R31 R32 R35 R38 R39 | 5020774 5370350 5020758 5020697 5020774 5370350 5390027 | 47 kΩ 1 kΩ 22 kΩ 47 kΩ 47 kΩ | 2 5% 1W 2 20% 0.1W 5% 0.3W 2 5% 1W 2 5% 1W 2 20% 0.1W s + G2 |
| C1 C2 C3 C4 C5 C6 | 4010123 4200626 4200628 4000155 4010165 4130306 | 33 µl 100 µ 56 pl 10 nl | 10% 500V F 20% 250V JF 20% 16V F 5% 63V F 20% 2kV hF 10% 63V | C11 C12 C21 C22 C31 C32 | 4000362 4010105 4000204 4010105 4000204 4010105 | 1 nF 100 p 1 nF 100 p | F 5% 63V 10% 63V pF 5% 63V 10% 63V pF 5% 63V 10% 63V |

^{*} Specially selected or adapted sample

| 11. | | | | | | = 1 |
|------------------------------------------|--------------------|-------------------------------|---------------------------------------------------|------------------|-------------------------------|--------------------------------------------------------|
| | P1 P2 P3 | 7220428 7210273 7220624 | Plug 6/6 pole Socket 6/6 pole Plug 6 pole | P4 P5 | 7220625 7200065 | Plug 3 pole Socket/picture tube |
| | CP1 | 6031925 | Lead to ground wire | CP2 | 6032295 | Lead to chassis |
| PCB 4, 8007136 Speaker Panel | | | | | | |
| PCB 5, 8003829 IR-Receiver | See pag | ge 3-5 | | | | |
| PCB 6, 8007137 Program Step/Headphone | C2-3 | 4010041 | 10 nF -20+80% 40V | | | |
| | S2 S3 | 7210386 7450048 | Jack plug Mains switch | S4 | 7400318 | Switch 1 pole |
| | CP1 | 7500013 | Contact pin | CP7 | 7500013 | Contact pin |
| iden is Se | P1 | 7220585 | Plug 5 pole | | | |
| PCB 7, 8003914 Teletext | See pag | ge 3-5 | | | | |
| PCB 10, 8007138 Mains Filter | TR1 | 8320097 | 20 BC 547B | | | |
| | D1-2 | 8300058 | 209 1N 4148 | | | |
| | R1-2 R4 | 5100365 5020877 | 1 Ω 10% 4W 12 Ω 10% 0.25W | R5 R6 | 5011209 5230009 | 10 MΩ 5% 1/2 W 40+1000 Ω 265 V |
| | C1 C5 | 4130443 4130279 | 10 пF 20% 380V 100 пF 20% 275V | C7 | 4130100 | 68 nF 10% 2\ioV |
| | RL1 | 7600090 | Relay 12V | | | |
| | T5 | 8022269 | Coil 2x0.4 mH | Т6 | 8022268 | Coil 2x36 mH |
| | F1 | 6600009 | Fuse 2A | | 7200066 | Fuse holder |
| | CP1-16 | 7500013 | Contact pin | | | |
| PCB 12, 8003830 Interface Audio/Data | P2 | 7220686 | Plug 7 pole | | | |
| | All other | er parts a | re identical with those | on page | 3-7 | |
| PCB 13, 8007061 A/V Connections | C1-2 C3-4 C5 | 4010105 4010106 4010105 | 1 nF 10% 63V 10 nF -20+80% 40V 1 nF 10% 63V | C6 C7 C8-9 | 4130230 4010105 4010106 | 100 nF 20% (3 V 1 nF 10% 63 T 10 nF -20+80% 40 V |
| | S1 | 6600090 | Fuse | | | |
| | P1 | 7220436 | Plug 17/17 pole | | | |
| PCB 20, 8007089 Sound B/G/I/L/M | See page 3-8 | | | | | |
| PCB 40, 8007091 Pal/Secam Decoder | See pag | ge 3-10 | | | | |
| | | | | | | |

12-1 12-1

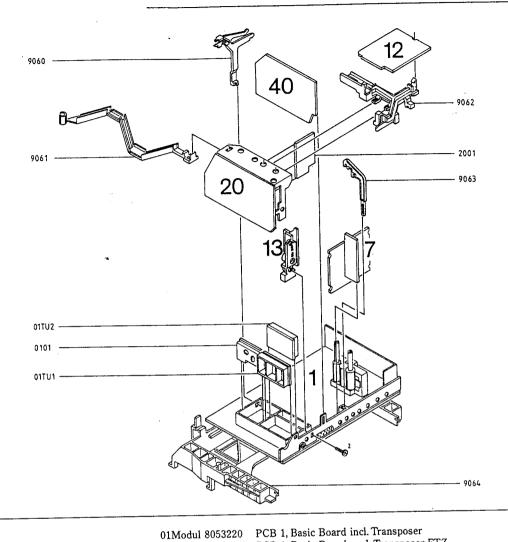
Cabinet



Bang & Olufsen

```
03Modul 8003825 PCB 3, Video Output
       3152558
                 Holder
                 Holder f/focus contact
       3152583
                 Cap f/socket
0303
       3164671
       3152558
0304
04Modul 8007136 PCB 4, Speaker Panel
05Modul 8003829 PCB 5, IR-Receiver
        3375050
                 Lens
        3131313
0502
        8330145 Diode BPW 82
06Modul 8007137 PCB 6, Program Step/Headphone
                 Jack plug
        7210386
        7450048
                 Mains switch
 10Modul 8007138 PCB 10, Mains Filter
        3450691
                  Lid
9001
         2391070
                  Hinge
 9002
9003
         3322092
                  Window
         3450701
                  Cap
9004
         3907059
                  Rubber
         3164687
                  Holder
 9006
         3450711
                  Contrast screen
 9007
                  Front frame w/rubber string
         3950029
                  Rubber string
         2640053
 9009
                  Spacer
 9010
         3450913
                  Cap
         8200060
                  Picture tube
 9011
                  Clamp
         2510119
 9012
 9013
         7510036
                  Ground current
         3450709
                  Loudspeaker panel
 9014
                  Loudspeaker
         8480164
 9015
         3152413
                   Holder
 9016
                  Loudspeaker damping tube w/cotton
         3132103
 9017
                  Gasket
 9018
         3340074
         3320131
                   Chassis w/foot
 9019
                  Tightening, side
Tightening, top/bottom
         3946083
         3946084
         3103287
                   Foot
 9020
                   Fitting f/tilting foot
         3031129
 9021
                   Fitting f/bottom
 9022
          3031157
         3035032
                   Rubber foot
 9023
          3907059
                   Rubber
 9024
                   Holder
          3164687
          3152414
                   Holder
  9026
                   Loudspeaker damping tube w/cotton
          3132103
  9027
                   Degaussing coil
  9028
          8022280
                   EHT cable
          6270364
  9029
          2810189
  9030
                   Spring
  9031
          3034045
                   Holder f/mains lead
          6275818
                   Mains lead w/euro plug
  9032
                   Mains lead AUS
          6275820
          6276070
                   Mains lead FTZ
          3152556 Holder
          2819237 Spring
          3031175
                   Fitting f/tilting foot
  9035
          3031234 Fitting f/bottom
  9036
          3103238
                   Tilting foot
          3035032
                    Rubber foot
  9038
          3152566 Holder f/tilting foot
  9039
          3430390 Back cover
          3414244 Back cover, red
           3414245 Back cover, white
           3414246 Back cover, black
           3414248
                    Back cover, blue
           3414249
                    Back cover, grey
                    Press button - STEP
                    Press button - ●
   9043
           2776032
          3152557
                    Holder
   9044
```

El-Chassis

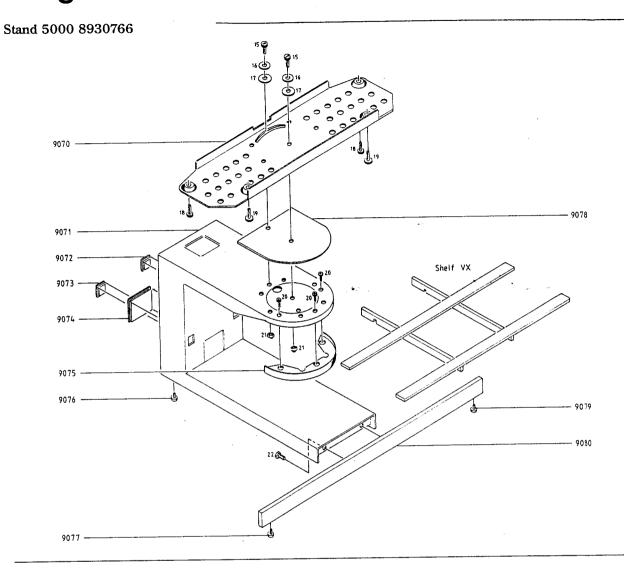


PCB 1, Basic Board excl. Transposer FTZ 8053276 0101 8007021 VHF Tuner 01TU1 8050115 01TU2 8050116 **UHF** Tuner 07Modul 8003815 PCB 7, Teletext 12Modul 8003830 PCB 12, Interface Audio/Data PCB 13, A/V Connections 13Modul 8007061 PCB 20, Sound B/G/I/L/M 20Modul 8007089 AM/FM Sound 8007090 2001 40Modul 8007091 PCB 40, Pal/Secam Decoder 3152662 Holder f/PCB 20 9060 9061 3152555 Cable tray Cable tray w/main cable 6275770 3152559 Holder f/PCB 12 9062 Holder f/PCB 7 9063 3152698 Holder f/PCB 1 3152582 9064

Bang & Olufsen

| ā . | | | | | |
|------------------|--------|-------------|-------------------------------------------------|-----------------------------------------|--|
| Survey of screws | 1 | 2015129 | 129 Screw 3.5 x 12 mm | | |
| | 2 | 2013123 | Screw 3 x 10 mm | | |
| | 3 | 2044048 | | | |
| | 4 | 2013106 | | | |
| | 5 | 2039037 | Screw 3 x 16 mm | | |
| | 6 | 2019015 | | | |
| • | 7 | | Screw 5 x 35 mm | • | |
| | 8 | | Screw 4 x 16 mm | | |
| | 9 | | Screw 4 x 10 mm | | |
| | 10 | | Screw 5 x 25 mm | | |
| Parts not shown | • | 3391982 | Carton f/Beolink 1000 | | |
| | | 3397637 | Foam packing | | |
| | | 3392015 | Outer carton | | |
| | | 3503524 | Owner's manual, Danish | | |
| | | 3503525 | | | |
| | | 3503526 | | | |
| | | 3503527 | Owner's manual, Finnish Owner's manual, English | | |
| | | 3503528 | Owner's manual, German | الما المحاصوصي إلى المائد الما | |
| | | 3503528 | Owner's manual, German Owner's manual, Dutch | • • • • • • • • • • • • • • • • • • • • | |
| | | 3503529 | Owner's manual, French | | |
| | | 3503530 | Owner's manual, Italian | | |
| | | 3503532 | | | |
| | | 3303333 | Owner's manual, Spannish | | |
| Accessories | Beolin | k 1000 Term | inal | | |
| | | - | | | |

See the service manual MASTER CONTROL LINK (3538711)



| | 0.070 | 0104117 | Maurina ploto |
|-------------------|-------|---------|--------------------------|
| | 9070 | 3124117 | Mounting plate |
| | 9071 | 3100036 | Frame |
| | 9072 | 3341072 | Cover, square |
| | 9073 | 3341072 | Cover, square |
| | 9074 | 3341071 | Cover, square |
| | 9075 | 3164735 | Cover, round |
| | 9076 | 3035055 | Rubber foot |
| | 9077 | 3035055 | Rubber foot |
| | 9078 | 3915044 | Gasket |
| | 9079 | 3035055 | Rubber foot |
| | 9080 | 3450721 | Rail |
| | | | |
| | | 3390378 | Bag w/screws and washers |
| | | 3392043 | Outer carton |
| | | 3392078 | Carton |
| | | 3397654 | Foam packing |
| | | 3397689 | Foam block |
| | | 3543092 | Installation guide |
| | | | • |
| Survey of screws, | 15 | 2046024 | Screw 6x16 mm |
| washers and nuts | 16 | 2622413 | Washer |
| wasners and nuts | 17 | 2622414 | Washer PVC |
| | 18 | 2044035 | Screw 5x10 mm |
| | 19 | 2021011 | Screw 5x15 mm |
| | 20 | 2011039 | Screw 2.5x10 mm |
| | 21 | 2380130 | Nut |
| | 22 | 2046030 | Screw 6x12 mm |
| | 22 | 2040030 | Octon Oxid min |
| | | | |

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JUSTERINGSVEJLEDNIING

Netdel, 1PL15:

Et DC-voltmeter tilsluttes ben 10 på linieudgangstransformatoren 1LL53.

Potentiometeret 1PL15 justeres til 152 V.

Alle øvrige justeringer, se afsnit 5.

ADJUSTMENTS

Power-supply, 1PL15:

Connect a DC voltmeter to pin 10 of the EHT-transformer 1LL53.

Adjust the potentiometer 1PL15 to 152 V.

All other adjustments, see section 5.

JUSTIERUNGEN

Netzteil, 1PL15:

An Stift 10 des Zeilenausgangstransformators 1LL53 einen Gleichstromspannungsmesser anschließen.

Das Potentiometer 1PL15 auf 152 V einstellen.

Alle übrigen Justierungen, siehe Abschnitt 5.

REGLAGES

Bloc d'alimentation, 1PL15:

Raccorder un voltmètre cc à la borne 10 du transformateur de sortie de ligne 1LL53. Régler le potentiomètre 1PL15 sur 152 V.

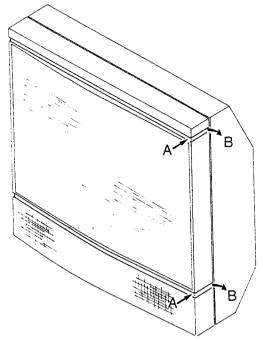
Tous les autres réglages, voir section 5.

ADSKILLELSE

Demontering af kontrastskærmen

DISASSEMBLY

Removal of contrast screen

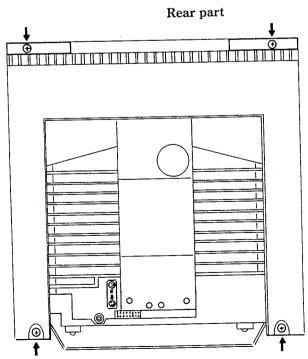


Pyntelisterne over og under kontrastskærmen løsnes ved at trykke listen ind (A) og samtidig trække ud i pilen B's retning. Listerne kan nu frigøres hele vejen rundt.

I hvert af de fire hjørner sidder en skrue som skrues ud, hvorefter kontrastskærmen er fri. Loosen the upper and lower plastic strips by firmly pressing the strips in one side (A) and simultaneously pulling at the end of the strips in the direction of the arrow B. The strips are now loose and can be removed.

Loosen the screw in each of the four corners. The contrast screen can now be removed.

Bagpart

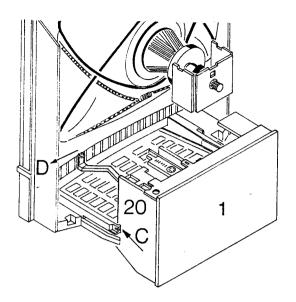


De fire skruer løsnes, og bagparten trækkes lige bagud.

Loosen the four screws and then remove the rear part by pulling straight outwards.

Serviceposition

Service position



Chassiset frigøres fra rammen i bunden ved at frigøre låsetappene C ved chassisets forreste kanter. Herefter kan chassiset trækkes bagud.

Chassiset sættes i serviceposition, ved at det trækkes fri og løftes op.

Ledningsbakken kan løsnes fra kabinettet, ved at trække denne i pilen D's retning.

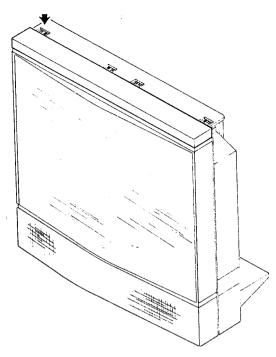
To detach the chassis from the frame in the bottom of the set, release the two locks C at the front edges of the chassis. The chassis can now be pulled outwards.

Place the chassis in the service position by pulling it outwards and lifting it.

Detach the cable tray from the cabinet by pulling it in the direction of the arrow \boldsymbol{D} .

Toppanel

Top panel



Panelet løsnes i den ene side, ved at låsen aktiveres med en skruetrækker.

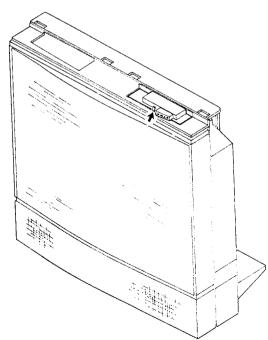
Toppanelet kan nu fjernes.

Loosen the panel in one side by releasing the lock with a screwdriver.

The top panel can now be removed.

PCB 05 IR-modtager

PCB 05 IR-receiver



Låsen løsnes med en skruetrækker, og PCB'en tages ud, ved at den løftes i den forreste kant.

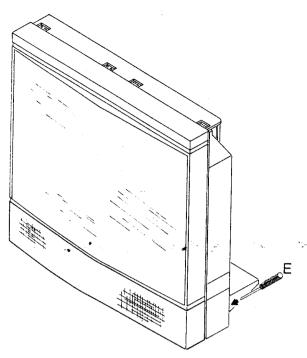
NB! Ved demontering af IR-modtagerens hus skal IR-modtagerdioden loddes ud.

Release the lock with a screwdriver and remove the PCB by lifting it at its front.

Note! If the housing of the IR-receiver is to be removed, the IR-receiver diode must be desoldered.

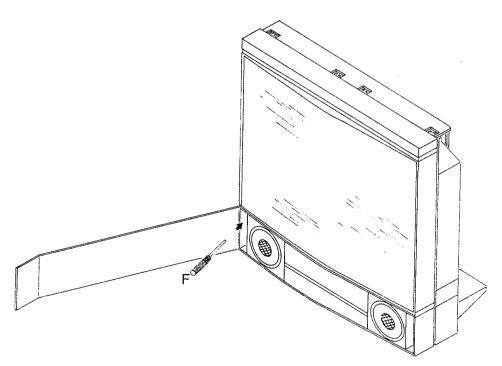
Højttalerpanel

Loudspeaker panel



Panelet frigøres i venstre side (set bagfra) ved at løsne låsene med en skruetrækker igennem hullerne i kabinettet (E). Herefter trækkes panelet fri langs kanten.

Loosen the panel in the left-hand side (seen from behind) by inserting a screwdriver into the holes in the cabinet (E) to release the locks. Loosen the panel at the front of the set.



Panelet frigøres i den anden side ved at løsne låsene forfra med en skruetrækker mellem panelet og kabinettet (F).

To detach the panel in the opposite side, release the locks by inserting a screwdriver between the panel and the cabinet (F).

Bang & Olufsen

SLUTAFPRØVNING

Denne afprøvning kan benyttes som kontrol, efter at reparationen er afsluttet.

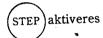
NB! I apparater fra S/W version 2.0 er de mulige programnumre 1-32 i stedet for 0-31.

Tilslutninger

TV'et tilsluttes lysnettet og et antennesignal.

Nærbetjening

Hovedafbryderen aktiveres → Stand-by indikator lyser



→ Starter på P1, hvis TV'et har været frakoblet netspændingen, og ellers på sidst benyttede program

Beolink 1000 fjernbetjening

Tænd

TV

→ Starter på sidst benyttede program

0-31

Starter på valgte programnummer

Tune

Direkte frekvensvalg

Indstilling af ønsket frekvens, f.eks. 543MHz (kanal 30), på et programnummer ml. 0 og 31. Omregningstabel for frekvens/kanal findes i betjeningsvejledningen (Frekvensoversigt).

543

→ Grønt display → Gult display

Store

Den indstillede frekvens kan lægges i hukommelsen på et programnummer mellem 0 og 31.

STORE

→ Rødt display

1

→ Programnummer 1 vælges

STORE •

→ Grønt display → Stand-by

1

→ Den på programnummer 1 lagrede frekvens vises

Tune

Søgning

Søgning under det valgte programnummer (0-31)

<< eller ≥>

→ Søgning stopper på nærmeste senderfrekvens

Finindstilling

Ønskede frekvens er fundet. Billedet står ikke skarpt.

GO TO << eller ≥> → Grant display

→ FT (fine tune) kan varieres op (+) eller ned (-)

FINAL TEST

This test may be used as a check-up after the repair has been carried out.

NOTE! In sets with S/W version from 2.0 the potential preset numbers are 1-32 instead of 0-31.

Connections

Connect the TV set to the mains supply and an aerial signal.

Direct Operation

Activate the mains switch - The stand-by indicator lights

Activate (STEP

→ Starts on P1 if the TV set has been disconnected from the mains supply or else on the programme last seen

Beolink 1000 Remote Control

Switching On

TV

→ Starts on the programme last

0-31

Starts on the preset No selected

Tuning

Direct frequency selection

Setting of a desired frequency, e.g. 543MH2 (channel 30), on a preset No between 0 and 31.

Conversion tabel for frequency/channel, see owner's manual (List of frequencies).

GO TO

→ Green display

543

→ Yellow display

Store

The set frequency can be stored on a preset No between 0 and 31.

STORE

→ Red display

1

→ Selection of preset No 1

SOUND

1

→ Green display

→ Stand-by → The frequency stored on the selected preset No is shown

Tuning

Search

Search on the selected preset No (0-31)

→ The search stops at the closest transmitterfr equency

Fine Tuning

The frequency desired has been found. The picture is not sharp.

→ Green display

→ FT (fine tuning) nay be varied up (+) or own (-)

Bang & Olufsen

→ Switches into the text mode

| Teletekst | |
|-------------------|--------------------------|
| Kun ved apparater | med indbygget teletekst. |
| TEXT | → Skifter til tekst-mode |

| l | vea | apparater | med | indbygget | teletekst. |
|---|-----|-----------|-----|-----------|------------|
| | | | | | |

| Vælg en side, f.eks. 1 | 00 |
|------------------------|-------------------------|
| GO TO 1 0 0 → | Tekstside 100 vises |
| STORE 2 STORE → | Tekstside 100 lagres på |
| | hukommelsesside 2 |
| | · Stand-by |

| | → Stand-by | |
|--------|--------------------------------|---|
| TEXT 2 | → Hukommelsesside 2, tekstside | e |
| | 100 vises | |

Billede

| PICTURE | → »BRILLIANCE xx«, grønt display | F |
|-----------|-------------------------------------|----------------|
| 🔼 eller 🔽 | → Lys varieres mellem 0 og 31 | |
| PICTURE | → »CQLOUR xx«, grønt display | $\overline{2}$ |
| 🔼 eller 💟 | → Farvemætningen varieres | |
| | mellem 0 og 60 | F |
| PICTURE | → »CONTRAST xx«, grønt | 2 |
| | display | |
| eller 💟 | → Kontrast varieres mellem 0 og | F |

Lyd

31

| SOUND | → »VOLUME xx«, grønt display |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| eller 💟 | → volume varieres mellem 0 og 40 |
| SOUND | → »BALANCE x«, grønt display |
| eller o eller o eller o eller elle | → Balance varieres mellem 8 og -8 |
| SOUND | → »TREBLE x«, grønt display |
| 🔼 eller 💟 | → Diskantniveauet varieres |
| | mellem 5 og -4 |
| SOUND | → »BASS x«, grønt display |
| \square eller \square | → Basniveauet varieres mellem |
| | 5 og -4 |
| SOUND | → »VOLUME HP xx«, grønt |
| | display |
| 🔼 eller 💟 | → Volume i hovedtelefon |

To sprog (System A2)

Ved modtagelse af to-sprogede udsendelser kan der vælges mellem sprog A og B.

varieres mellem 0 og 32

| O | F G | 0 |
|----------|----------|------------------------------------------------------|
| TURN | → | Skifter mellem sprog A og |
| | | sprog B. Indikeres af to røde |
| | | pile i øverste højre hjørne |
| | | $(\blacktriangleleft = A, \blacktriangleright = B).$ |

Teletext

TEXT

Only applies to TV sets with built-in teletext.

| Select a page, e.g. | 100 | |
|---------------------|----------|----------------------------|
| GO TO 1 0 0 | → | Shows text page 100 |
| STORE 2 STORE | | Text page 100 is stored on |
| | | memory page 2 |
| | | Stand-by |
| TEYT [9] | → | Shows memory name 2 torr |

| TEXT 2 | - | Shows memory page 2, text |
|--------|---|---------------------------|
| | | page 100 |
| | | • |

| PICTURE | → "BRILLIANCE xx", green |
|---------|-----------------------------------|
| | display |
| or 🔽 | → Brilliance varies in the range |
| | from 0 to 31 |
| PICTURE | → "COLOUR xx", green display |
| or 🔽 | → Colour saturation varies in the |
| | range from 0 to 60 |
| DICTUDE | - "CONTDAST TIT" COLOR |

| | → Colour saturation varies in the |
|---------|-----------------------------------|
| | range from 0 to 60 |
| PICTURE | → "CONTRAST xx", green |
| | display |
| or 💟 | → Contrast varies in the range |
| | from 0 to 31 |

| Sound | |
|-------|----------------------------------|
| SOUND | → "VOLUME xx", green display |
| or 🔽 | → Volume level varies in the |
| | range from 0 to 40 |
| SOUND | → "BALANCE x", green display |
| or 💟 | → Balance level varies in the |
| | range from 8 to -8 |
| SOUND | → "TREBLE x", green display |
| ⊠or ⊠ | → Treble level varies in the |
| | range from 5 to -4 |
| SOUND | → "BASS x", green display |
| or 🔽 | → Bass level varies in the range |
| | from 5 to -4 |
| SOUND | → "VOLUME HP xx", green |
| | display |
| or 🔯 | → Volume level in head phones |
| | varies in the range from 0 to |

Dual Languages (System A2)

When receiving dual language programmes, language A or B may be selected.

32

| TURN | → Switches between language A and language B. This is indicated by two red arrows in |
|------|--------------------------------------------------------------------------------------|
| | the upper righthand corner |
| | $(\blacktriangleleft = A, \blacktriangleright = B)$ |

Stereo lyd

Ved modtagelse af stereo-lyd skifter TV'et automatisk til stereo. Stereo indikeres af to røde pile i øverste højre hjørne.

TURN TURN

- → Mono-lyd, røde pile slukket
- → Stereo-lyd, to røde pile i øverste højre hjørne

Ved skift til anden stereo-udsendelse vil TV'et automatisk skifte til stereo.

Shift funktioner

Tidskonstant

SHIFT 2

→ Tidskonstanten ændres til en perfekt synkronisering mellem TV'et og en videobåndoptager (»toggle«-funktion). Indikeres med »A/V« efter programnummeret på skærmen

System B/System L/System M

SHIFT 3

→ Systemskift (»toggle«-funktion)

Billede

Der foretages kontrol af geometri, højspænding, fokus, følsomhed, hvid balance, farvespring, opløsning, slæb, skygger, interferens og gråskala.

Stereo Sound

When receiving stereo sound, the TV set automatically switches to stereo. Stereo is indicated by two red arrows in the upper righthand corner.

TURN

→ Mono sound, no red arrows in the upper righthand corner

TURN

→ Stereo sound, two red arrows in the upper righthand corner

When switching to another stereo transmission, the TV-set automatically switches to stereo sound.

Shift Functions

Time constant

SHIFT 2

- → The time constant is changed into a perfect synchronization between the TV set and a
- video recorder (toggle function). This is indicated by "A/V" after the preset No

System B/System L/System M

SHIFT 3

→ Change of system (toggle function)

Picture

Check geometry, high voltage, focus, sensitivity, white balance, colour switching, resolution, ringing, ghosts, interference and grey scale.

Bang & Olufsen

ISOLATIONSTEST

Ethvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stelbenet i en af højttalerstikdåserne.

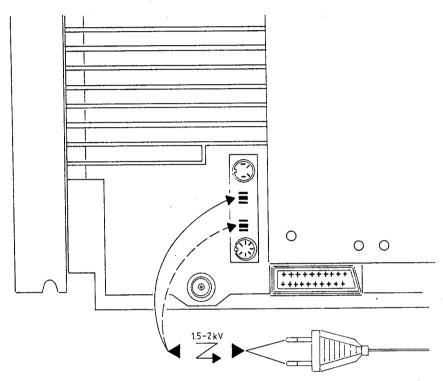
INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to the chassis pin of one of the loudspeaker sockets.



OBS

For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

Beovision MX 5000 er identisk med Beovision MX 4500 undtaget fra flg. punkter:

Beovision MX 5000 ist mit Beovision MX 4500 identisch ausgenommen von den folgenden Punkter:

Beovision MX 5000 is identical with Beovision MX 4500 except the following points:

Beovision MX 5000 est identique à Beovision MX 4500 à l'exception des sujets suivants:

LIST OF ELECTRICAL PARTS

| 136 | | | |
|---------|---------|---------------------|--|
| | | | |
| 1IR01 Δ | 8341156 | 136 HD 404919 (16K) | |

 $\boldsymbol{\Delta}$ indicates that static electricity may destroy the component.

LIST OF MECHANICAL PARTS

9010

3450710

Сар

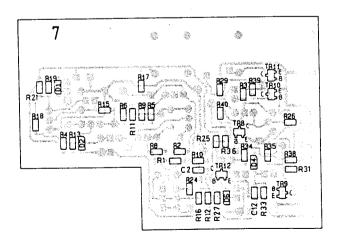
(Exploded view see page 12-1)

| 3503538 | Owner's manual, Danish |
|---------|-------------------------|
| 3503539 | Owner's manual, Swedish |
| 3503540 | Owner's manual, Finnish |
| 3503541 | Owner's manual, English |
| 3503542 | Owner's manual, German |
| 3503543 | Owner's manual, Dutch |
| 3503544 | Owner's manual, French |
| 3503545 | Owner's manual, Italian |
| 3503546 | Owner's manual, Spanish |
| | |

ACCESSORIES

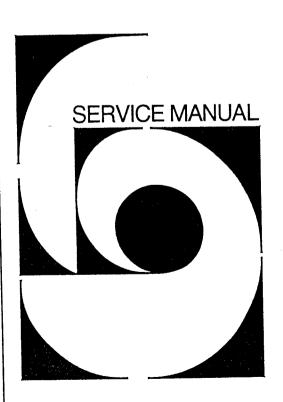
8930806 8930816 MB 5000 - Motorized TV base MS 5000 - Motorized TV stand

PCB 7, Sub module Teletext

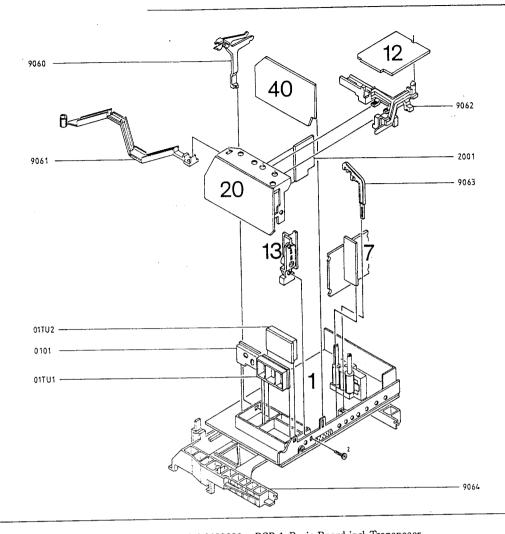


Beovision MX 5000

Type 3211-3212-3213-3214-3216-3217-3218



El-Chassis



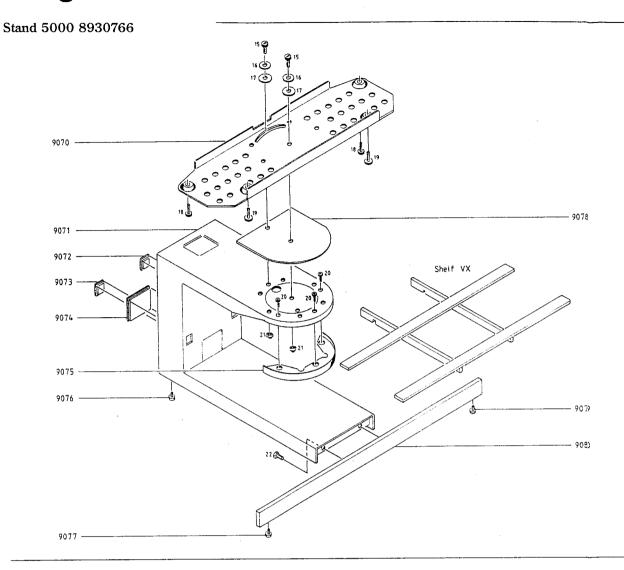
| | 8053220 8053276 8007021 | PCB 1, Basic Board incl. Transposer PCB 1, Basic Board excl. Transposer FTZ Transposer |
|--------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 01101 | 8050115 8050116 | VHF Tuner UHF Tuner |
| 07Modul | 8003815 | PCB 7, Teletext |
| 12Modul | 8003830 | PCB 12, Interface Audio/Data |
| 13Modul | 8007061 | PCB 13, A/V Connections |
| 20Modu 2001 | 8007089 8007090 | PCB 20, Sound B/G/I/L/M AM/FM Sound |
| 40Modu | 8007091 | PCB 40, Pal/Secam Decoder |
| 9060 9061 9062 9063 9064 | 3152662 3152555 6275770 3152559 3152698 3152582 | Cable tray w/main cable Holder f/PCB 12 Holder f/PCB 7 |
| | | |

Bang & Olufsen

| Survey of screws | 1 | 2015129 | Screw 3.5 x 12 mm |
|-------------------|--------|-------------|--------------------------|
| • | 2 | 2013123 | Screw 3 x 10 mm |
| | 3 | 2044048 | Screw w/washer 5 x 25 mm |
| | 4 | 2013106 | Screw 2.9 x 16 mm |
| | 5 | 2039037 | Screw 3 x 16 mm |
| | 6 | 2019015 | Screw 4 x 14 mm |
| | 7 | 2021003 | Screw 5 x 35 mm |
| | 8 | 2019011 | Screw 4 x 16 mm |
| | 9 | 2019017 | |
| | 10 | 2021010 | Screw 5 x 25 mm |
| Parts not shown | | 3391982 | Carton f/Beolink 1000 |
| i ai is not snown | | 3397637 | Foam packing |
| | | 3392015 | Outer carton |
| | | 3503524 | Owner's manual, Danish |
| | | 3503525 | Owner's manual, Swedish |
| | | 3503526 | Owner's manual, Finnish |
| | | 3503527 | Owner's manual, English |
| | | 3503528 | Owner's manual, German |
| · | | 3503529 | Owner's manual, Dutch |
| | | 3503530 | · · |
| | | 3503532 | Owner's manual, Italian |
| | | 3503533 | Owner's manual, Spannish |
| | | | |
| Accessories | Beolin | k 1000 Tern | ninal |
| | | | |

See the service manual

MASTER CONTROL LINK (3538711)



| | 9070 9071 9072 9073 9074 9075 9076 9077 9078 9079 9080 | 3124117 3100036 3341072 3341071 3164735 3035055 3035055 3915044 3035055 3450721 3390378 3392043 3392078 3397654 3397689 3543092 | Mounting plate Frame Cover, square Cover, square Cover, square Cover, round Rubber foot Rubber foot Gasket Rubber foot Rail Bag w/screws and washers Outer carton Carton Foam packing Foam block Installation guide |
|-------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Survey of screws, | 15 | 2046024 | Screw 6x16 mm |
| washers and nuts | 16 | 2622413 | Washer |
| | 17 | 2622414 | Washer PVC |
| | 18 | 2044035 | Screw 5x10 mm |
| | 19 | 2021011 | Screw 5x15 mm |
| | 20 | 2011039 | Screw 2.5x10 mm |
| | 21 | 2380130 | Nut |
| | 22 | 2046030 | Screw 6x12 mm |
| | | | |

Bang & Olufsen

JUSTERINGSVEJLEDNIING

Netdel, 1PL15:

Et DC-voltmeter tilsluttes ben 10 på linieudgangstransformatoren 1LL53.

Potentiometeret 1PL15 justeres til 152 V.

Alle øvrige justeringer, se afsnit 5.

ADJUSTMENTS

Power-supply, 1PL15:

Connect a DC voltmeter to pin 10 of the EHT-transformer 1LL53.

Adjust the potentiometer 1PL15 to 152 V.

All other adjustments, see section 5.

JUSTIERUNGEN

Netzteil, 1PL15:

An Stift 10 des Zeilenausgangstransformators 1LL53 einen Gleichstromspannungsmesser anschließen.

Das Potentiometer 1PL15 auf $152\,\mathrm{V}$ einstellen.

Alle übrigen Justierungen, siehe Abschnitt 5.

REGLAGES

Bloc d'alimentation, 1PL15:

Raccorder un voltmètre cc à la borne 10 du transformateur de sortie de ligne 1LL53. Régler le potentiomètre 1PL15 sur 152 V.

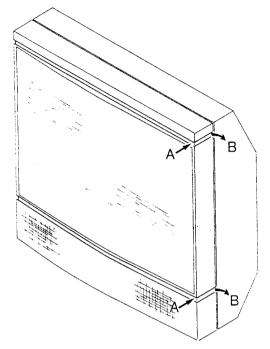
Tous les autres réglages, voir section 5.

ADSKILLELSE

Demontering af kontrastskærmen

DISASSEMBLY

Removal of contrast screen

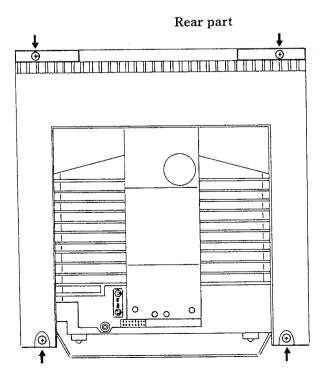


Pyntelisterne over og under kontrastskærmen løsnes ved at trykke listen ind (A) og samtidig trække ud i pilen B's retning. Listerne kan nu frigøres hele vejen rundt.

I hvert af de fire hjørner sidder en skrue som skrues ud, hvorefter kontrastskærmen er fri. Loosen the upper and lower plastic strips by firmly pressing the strips in one side (A) and simultaneously pulling at the end of the strips in the direction of the arrow B. The strips are now loose and can be removed.

Loosen the screw in each of the four corners. The contrast screen can now be removed.

Bagpart

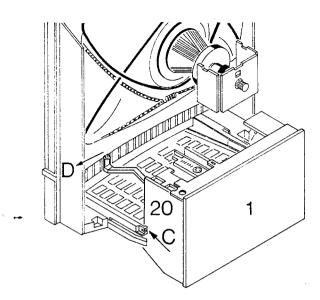


De fire skruer løsnes, og bagparten trækkes lige bagud.

Loosen the four screws and then remove the rear part by pulling straight outwards.

Serviceposition

Service position



Chassiset frigøres fra rammen i bunden ved at frigøre låsetappene C ved chassisets forreste kanter. Herefter kan chassiset trækkes bagud.

Chassiset sættes i serviceposition, ved at det trækkes fri og løftes op.

Ledningsbakken kan løsnes fra kabinettet, ved at trække denne i pilen D's retning.

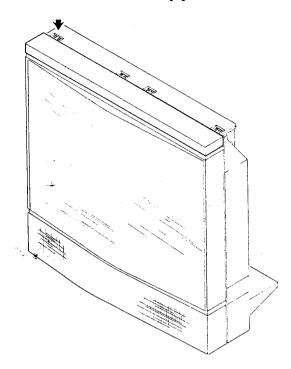
To detach the chassis from the frame in the bottom of the set, release the two locks C at the front edges of the chassis. The chassis can now be pulled outwards.

Place the chassis in the service position by pulling it outwards and lifting it.

Detach the cable tray from the cabinet by pulling it in the direction of the arrow D.

Toppanel





Panelet løsnes i den ene side, ved at låsen aktiveres med en skruetrækker.

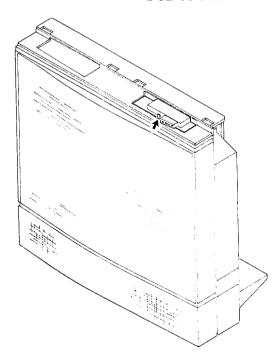
Toppanelet kan nu fjernes.

Loosen the panel in one side by releasing the lock with a screwdriver.

The top panel can now be removed.

PCB 05 IR-modtager

PCB 05 IR-receiver



Låsen løsnes med en skruetrækker, og PCB'en tages ud, ved at den løftes i den forreste kant.

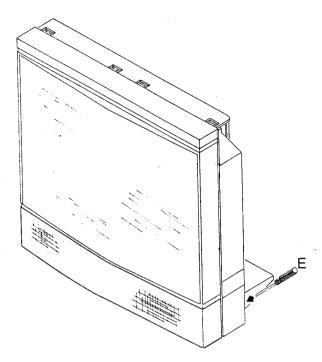
NB! Ved demontering af IR-modtagerens hus skal IR-modtagerdioden loddes ud.

Release the lock with a screwdriver and remove the PCB by lifting it at its front.

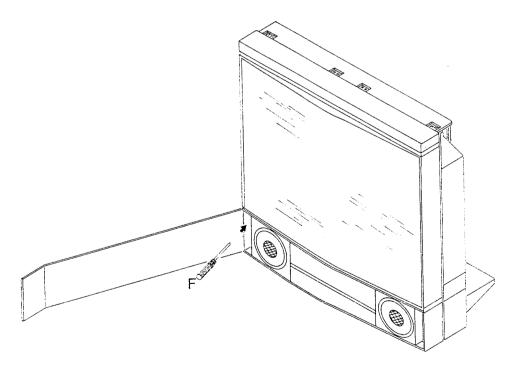
Note! If the housing of the IR-receiver is to le removed, the IR-receiver diode must be desaldered.

Højttalerpanel

Loudspeaker panel



Panelet frigøres i venstre side (set bagfra) ved at løsne låsene med en skruetrækker igennem hullerne i kabinettet (E). Herefter trækkes panelet fri langs kanten. Loosen the panel in the left-hand side (seen from behind) by inserting a screwdriver into the holes in the cabinet (E) to release the locks. Loosen the panel at the front of the set.



Panelet frigøres i den anden side ved at løsne låsene forfra med en skruetrækker mellem panelet og kabinettet (F).

To detach the panel in the opposite side, release the locks by inserting a screwdriver between the panel and the cabinet (F).

SLUTAFPRØVNING

Denne afprøvning kan benyttes som kontrol, efter at reparationen er afsluttet.

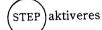
NB! I apparater fra S/W version 2.0 er de mulige programnumre 1-32 i stedet for 0-31.

Tilslutninger

TV'et tilsluttes lysnettet og et antennesignal.

Nærbetjening

Hovedafbryderen aktiveres → Stand-by indikator lyser



→ Starter på P1, hvis TV'et har været frakoblet netspændingen, og ellers på sidst benyttede program

Beolink 1000 fjernbetjening

Tænd

TV

→ Starter på sidst benyttede

program

0-31

Starter på valgte programnummer

Tune

Direkte frekvensvalg

Indstilling af ønsket frekvens, f.eks. 543MHz (kanal 30), på et programnummer ml. 0 og 31.

Omregningstabel for frekvens/kanal findes i betjeningsvejledningen (Frekvensoversigt).

GO TO 5 4 3 → Grønt display → Gult display

Store

Den indstillede frekvens kan lægges i hukommelsen på et programnummer mellem 0 og 31.

STORE

→ Rødt display

1

→ Programnummer 1 vælges

STORE

→ Grønt display

→ Stand-by

[1]

→ Den på programnummer 1 lagrede frekvens vises

Tune

Søgning

Søgning under det valgte programnummer (0-31)

<< eller ≥>

→ Søgning stopper på nærmeste senderfrekvens

Finindstilling

Ønskede frekvens er fundet. Billedet står ikke skarpt.

GO TO

→ Grønt display

<< eller ≥>

→ FT (fine tune) kan varieres op (+) eller ned (-)

FINAL TEST

This test may be used as a check-up after the repair has been carried out.

NOTE! In sets with S/W version from 2.0 the potential preset numbers are 1-32 instead of 0-31.

Connections

Connect the TV set to the mains supply and an aerial signal.

Direct Operation

Activate the mains switch → The stand-by indicator lights

Activate (STEP

→ Starts on P1 if the TV set has been disconnected from the mains supply or else on the programme last seen

Beolink 1000 Remote Control

Switching On

TV

→ Starts on the programme last

0 - 31

Starts on the preset No selected

Tuning

Direct frequency selection

Setting of a desired frequency, e.g. 543MHz (channel 30), on a preset No between 0 and 31.

Conversion tabel for frequency/channel, see owner's manual (List of frequencies).

GO TO

→ Green display

5 4 3

→ Yellow display

Store

The set frequency can be stored on a preset N_0 between 0 and 31.

STORE

→ Red display

1

→ Selection of preset No 1

SOUND

→ Green display

→ Stand-by

1

ightarrow The frequency stored on the selected preset No is shown

Tuning Search

Search on the selected preset No (0-31)

<< or >>>

→ The search stops at the closest transmitter frequency

Fine Tuning

The frequency desired has been found. The picture is not sharp.

GO TO << or ≥> → Green display

→ FT (fine tuning) maybe varied up (+) or down (-)

Bang & Olufsen

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Teletekst | 1 * 31 servers to late last | Teletext | sets with built-in teletext. |
| Kun ved apparater | med indbygget teletekst. | Only applies to 1 v | |
| TEXT | → Skifter til tekst-mode | TEXT | → Switches into the text mode |
| Vælg en side, f.eks. GO TO 1 0 0 STORE 2 STORE TEXT 2 | 100 → Tekstside 100 vises → Tekstside 100 lagres på hukommelsesside 2 → Stand-by → Hukommelsesside 2, tekstside 100 vises | Select a page, e.g. 1 GOTO 1 0 0 STORE 2 STORE TEXT 2 | 100 → Shows text page 100 → Text page 100 is stored on memory page 2 → Stand-by → Shows memory page 2, text page 100 |
| | | , MA | |
| Billede [PICTURE] | → »BRILLIANCE xx«, grønt display | Picture PICTURE | → "BRILLIANCE xx", green display |
| | → Lys varieres mellem 0 og 31 → »COLOUR xx«, grønt display | or 💟 | → Brilliance varies in the range from 0 to 31 |
| 🔀 eller 🔽 | → Farvemætningen varieres mellem 0 og 60 | PICTURE | → "COLOUR xx", green display |
| PICTURE | → »CONTRAST xx«, grønt | or 🔽 | → Colour saturation varies in the range from 0 to 60 |
| eller eller | display → Kontrast varieres mellem 0 og | PICTURE | → "CONTRAST xx", green display |
| | 31 | or 🔽 | → Contrast varies in the range from 0 to 31 |
| | | _ | |
| Lyd | | Sound | → "VOLUME xx", green display |
| SOUND | → »VOLUME xx«, grønt display→ volume varieres mellem 0 og | SOUND or \square | → Volume level varies in the range from 0 to 40 |
| SOUND | 40 → »BALANCE x«, grønt display | SOUND | → "BALANCE x", green display |
| eller 🔽 | → Balance varieres mellem 8 og -8 | or 🔽 | → Balance level varies in the range from 8 to -8 |
| SOUND | → »TREBLE x«, grønt display | SOUND or | → "TREBLE x", green display→ Treble level varies in the |
| eller 🔽 | → Diskantniveauet varieres mellem 5 og -4 | | range from 5 to -4 |
| SOUND | → »BASS x«, grønt display | SOUND or | → "BASS x", green display→ Bass level varies in the range |
| eller 🔽 | → Basniveauet varieres mellem 5 og -4 | | from 5 to -4 |
| SOUND | → »VOLUME HP xx«, grønt | SOUND | → "VOLUME HP xx", green display |
| eller 💟 | display → Volume i hovedtelefon | or 🔽 | → Volume level in head phones varies in the range from 0 to |

To sprog (System A2)

Ved modtagelse af to-sprogede udsendelser kan der vælges mellem sprog A og B.

TURN

→ Skifter mellem sprog A og sprog B. Indikeres af to røde pile i øverste højre hjørne $(\blacktriangleleft = A, \blacktriangleright = B).$

varieres mellem 0 og 32

Dual Languages (System A2)

When receiving dual language programmes, language A or B may be selected.

→ Switches between language A and language B. This is indicated by two red arrows in the upper righthand corner $(\blacktriangleleft = A, \blacktriangleright = B)$

Stereo lyd

Ved modtagelse af stereo-lyd skifter TV'et automatisk til stereo. Stereo indikeres af to røde pile i øverste højre hjørne.

TURN

→ Mono-lyd, røde pile slukket

TURN

→ Stereo-lyd, to røde pile i øverste højre hjørne

Ved skift til anden stereo-udsendelse vil TV'et automatisk skifte til stereo.

Shift funktioner

Tidskonstant

SHIFT 2

→ Tidskonstanten ændres til en perfekt synkronisering mellem TV'et og en videobåndoptager (*toggle«-funktion). Indikeres med **A/V« efter programnummeret på skærmen

System B/System L/System M

SHIFT 3

→ Systemskift (»toggle«-funktion)

Billede

Der foretages kontrol af geometri, højspænding, fokus, følsomhed, hvid balance, farvespring, opløsning, slæb, skygger, interferens og gråskala.

Stereo Sound

When receiving stereo sound, the TV set automatically switches to stereo. Stereo is indicated by two red arrows in the upper righthand corner.

TURN

→ Mono sound, no red arrows in the upper righthand corner

TURN

→ Stereo sound, two red arrows in the upper righthand corner

When switching to another stereo transmission, the TV-set automatically switches to stereo sound.

Shift Functions

Time constant

SHIFT 2

→ The time constant is changed into a perfect synchronization between the TV set and a video recorder (toggle function). This is indicated by "A/V" after the preset No

System B/System L/System M

SHIFT 3

→ Change of system (toggle function)

Picture

Check geometry, high voltage, focus, sensitivity, white balance, colour switching, resolution, ringing, ghosts, interference and grey scale.

Bang & Olufsen

ISOLATIONSTEST

Ethvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stelbenet i en af højttalerstikdåserne.

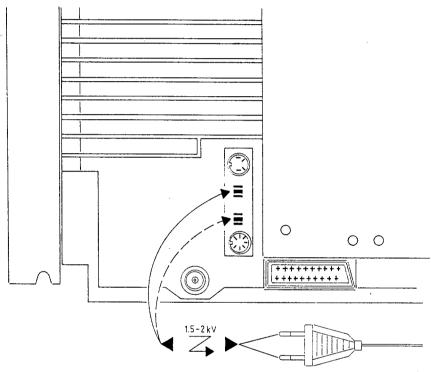
INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to the chassis pin of one of the loudspeaker sockets.



OBS!

For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

Beovision MX 5000

Type 3211-3212-3213-3214-3216-3217-3218



Bang & Olufsen

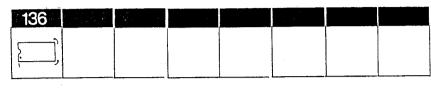
Beovision MX 5000 er identisk med Beovision MX 4500 undtaget fra flg. punkter:

Beovision MX 5000 is identical with Beovision MX 4500 except the following points:

Beovision MX 5000 ist mit Beovision MX 4500 identisch ausgenommen von den folgenden Punkter:

Beovision MX 5000 est identique à Beovision MX 4500 à l'exception des sujets suivants:

LIST OF ELECTRICAL PARTS



1IR01 △

8341156

136 HD 404919 (16K)

 $\boldsymbol{\Delta}$ indicates that static electricity may destroy the component.

LIST OF MECHANICAL PARTS

9010

3450710

Cap

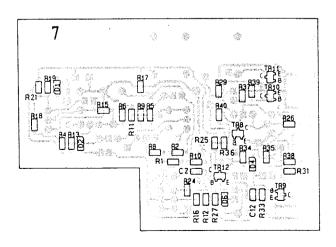
(Exploded view see page 12-1)

| 3503538 | Owner's manual, Danish |
|---------|-------------------------|
| 3503539 | Owner's manual, Swedish |
| 3503540 | Owner's manual, Finnish |
| 3503541 | Owner's manual, English |
| 3503542 | Owner's manual, German |
| 3503543 | Owner's manual, Dutch |
| 3503544 | Owner's manual, French |
| 3503545 | Owner's manual, Italian |
| 3503546 | Owner's manual, Spanish |
| | |

ACCESSORIES

8930806 8930816 MB 5000 - Motorized TV base MS 5000 - Motorized TV stand

PCB 7, Sub module Teletext



NICAM 728

Type 3037 installation kit Pal B/G for Beovision MX 3000/5000

Type 3040 installation kit Pal I for Beovision MX 3000/5000

Type 3041 installation kit Pal B/G for Beovision MX 3000/4500

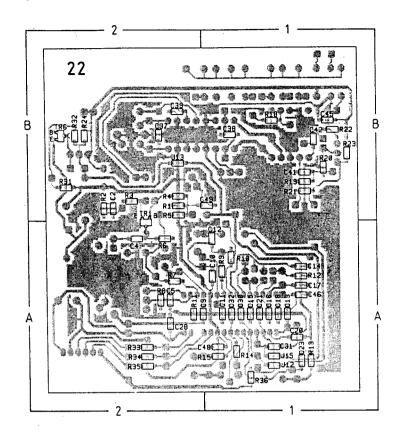
Type 3042 installation kit Pal I for Beovision MX 3000/4500

Beovision MX 3000, type 3142-3148

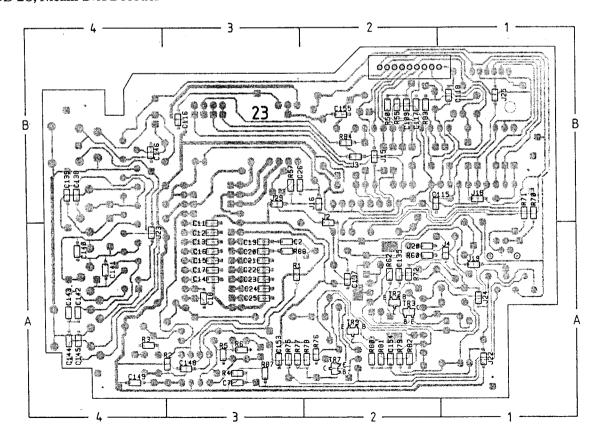
Beovision MX 5000, type 3212-3218

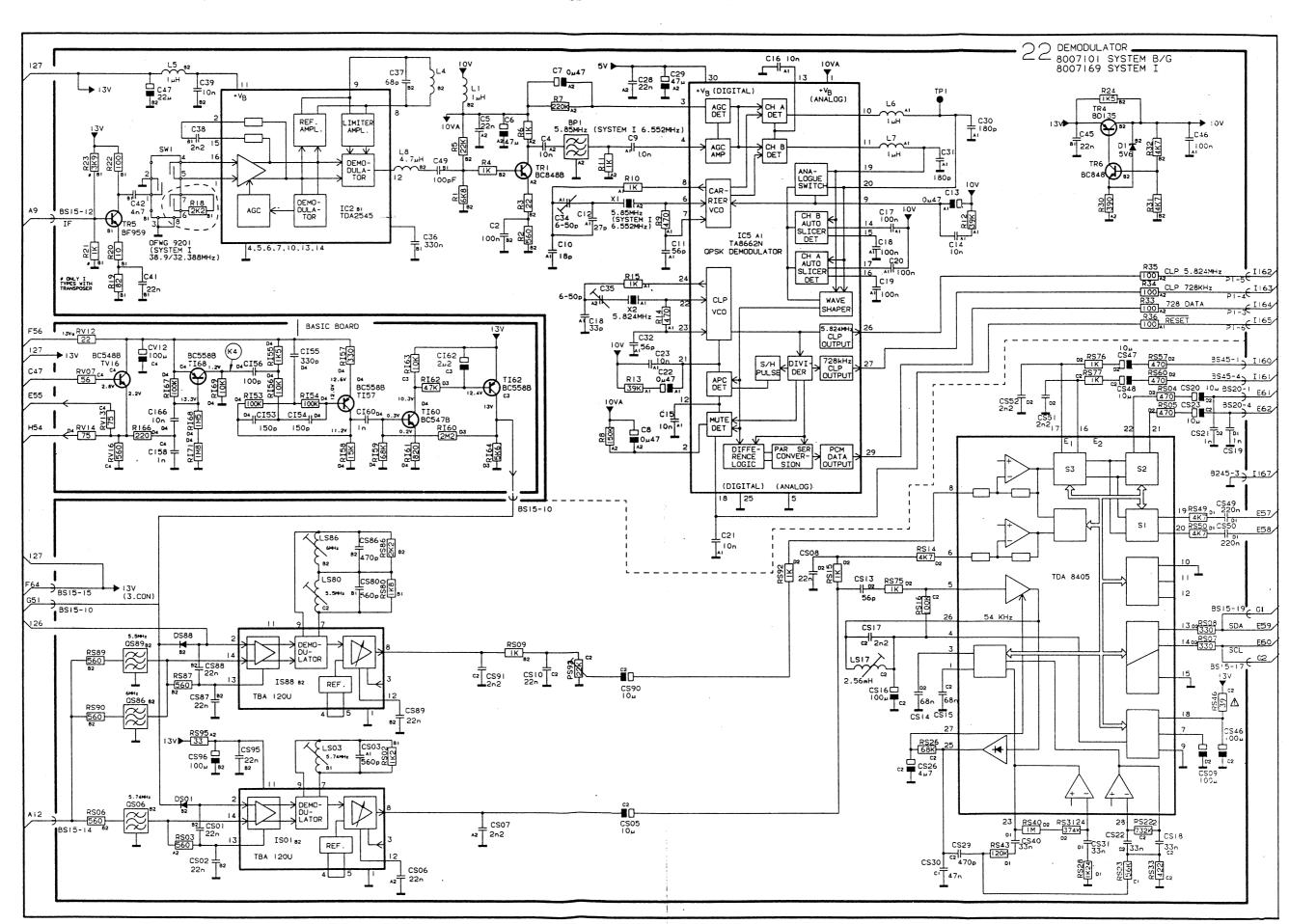


PCB 22, Demodulator



PCB 23, Nicam D/A Decoder





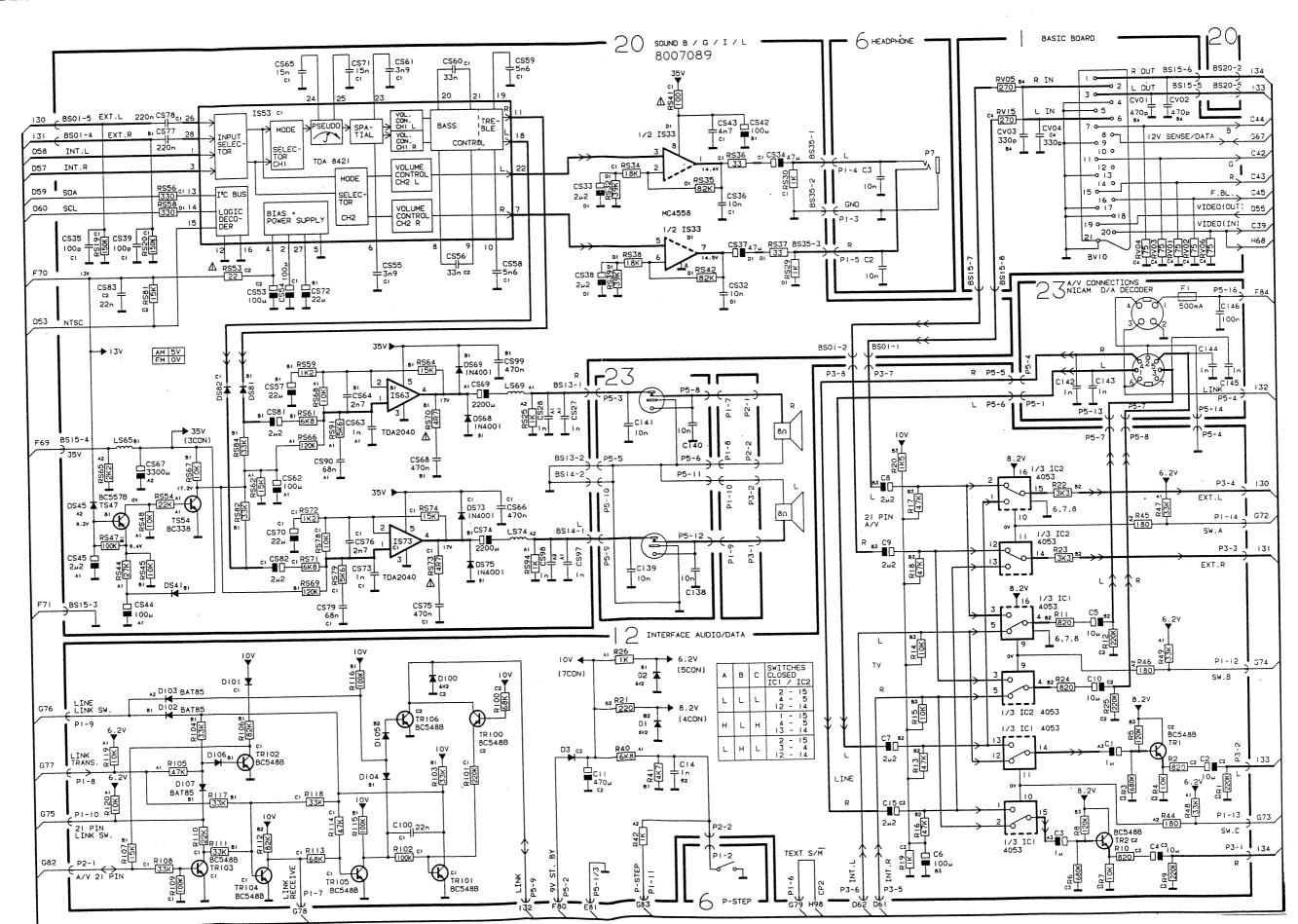
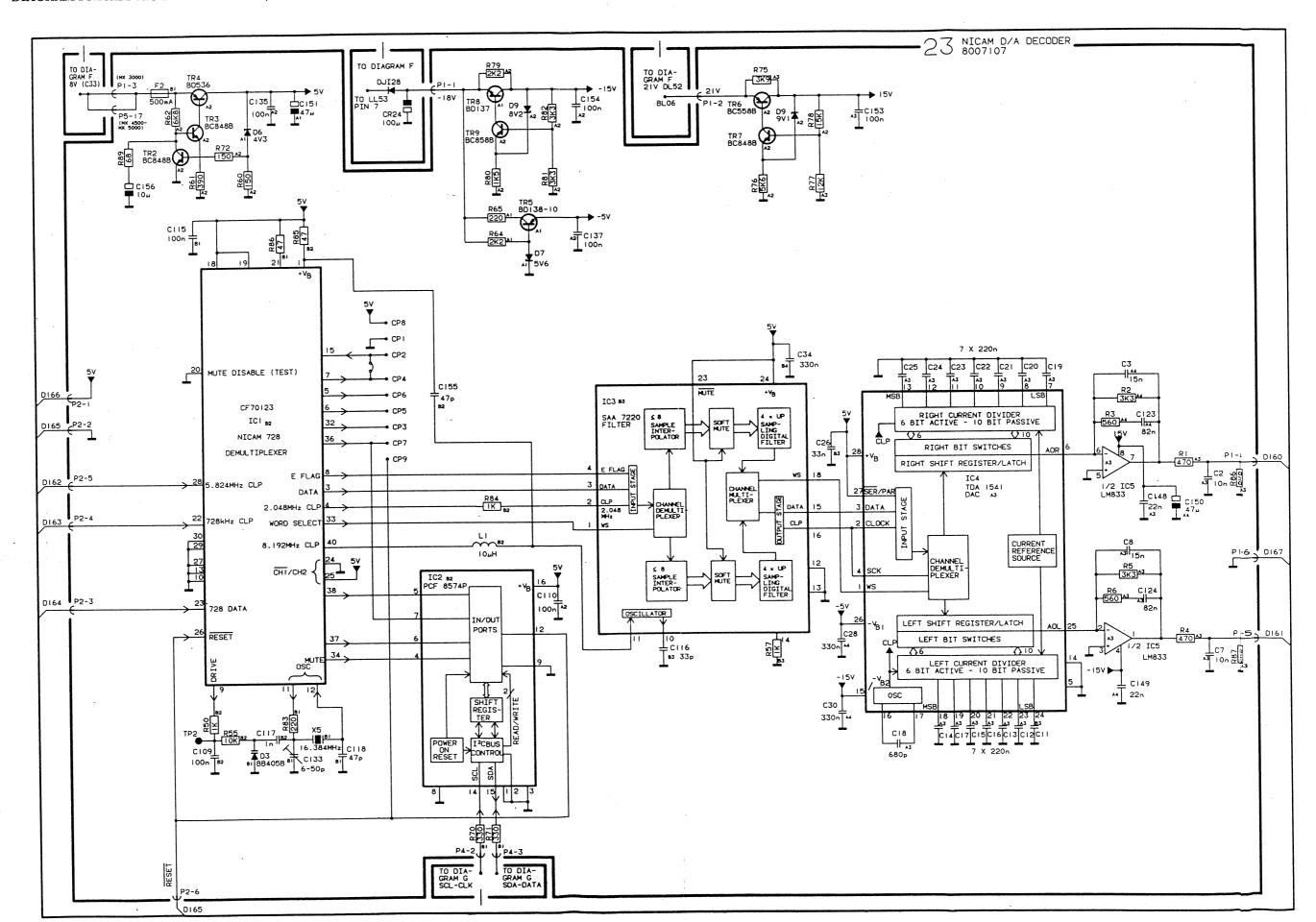
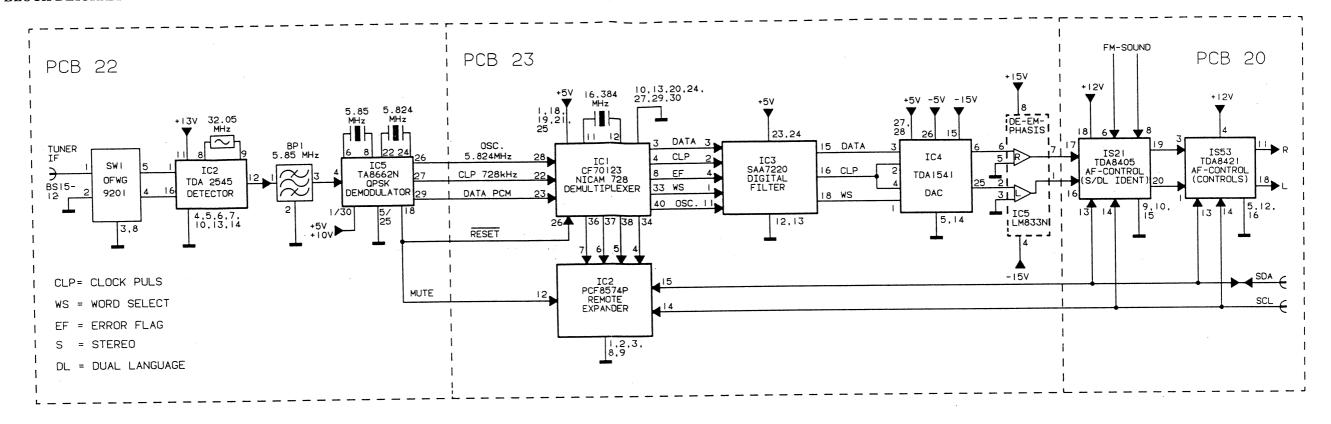


DIAGRAM I NICAM 728 DIGITAL FILTER, D/A CONVERTER



BLOCK DIAGRAM



Standard Resitors:

Resistors SMD 2% 1/8 W SMD 5% 1/8 W

| | 5% | 2% | 2% | 2% | 2% | 2% | 5% | 5% |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 | 5011623 | 5011647 | 5011218 | 5011227 | 5011241 | 5011256 | 5011267 | 5011730 |
| 1.1 | 5011624 | 5011648 | 5011669 | 5011681 | 5011689 | 5011694 | 5011707 | |
| 1.2 | 5011625 | 5011649 | 5011219 | 5011682 | 5011490 | 5011257 | 5011708 | |
| 1.3 | 5011626 | 5011650 | 5011670 | 5011683 | 5011242 | 5011258 | 5011709 | |
| 1.5 | 5011627 | 5011651 | 5011220 | 5011228 | 5011243 | 5011259 | 5011710 | |
| 1.6 | 5011628 | 5011652 | 5011671 | 5011684 | 5011690 | 5011695 | 5011711 | |
| 1.8 | 5011629 | 5011653 | 5011672 | 5011229 | 5011244 | 5011260 | 5011712 | |
| 2.0 | 5011630 | 5011654 | 5011673 | 5011685 | 5011691 | 5011696 | 5011713 | |
| 2.2 | 5011216 | 5011655 | 5011674 | 5011230 | 5011245 | 5011261 | 5011714 | |
| 2.4 | 5011634 | 5011656 | 5011675 | 5011686 | 5011246 | 5011697 | 5011715 | |
| 2.7 | 5011635 | 5011657 | 5011497 | 5011231 | 5011247 | 5011262 | 5011716 | |
| 3.0 | 5011731 | 5011658 | 5011499 | 5011500 | 5011692 | 5011698 | 5011717 | |
| 3.3 | 5011217 | 5011659 | 5011676 | 5011232 | 5011248 | 5011263 | 5011718 | |
| 3.6 | 5011636 | 5011660 | 5011677 | 5011687 | 5011249 | 5011264 | 5011719 | |
| 3.9 | 5011637 | 5011661 | 5011221 | 5011233 | 5011491 | 5011699 | 5011720 | |
| 4.3 | 5011638 | 5011662 | 5011498 | 5011688 | 5011492 | 5011700 | 5011721 | |
| 4.7 | 5011639 | 5011269 | 5011222 | 5011234 | 5011250 | 5011265 | 5011722 | |
| 5.1 | 5011640 | 5011663 | 5011678 | 5011235 | 5011493 | 5011701 | 5011723 | |
| 5.6 | 5011641 | 5011664 | 5011223 | 5011236 | 5011251 | 5011702 | 5011724 | |
| 6.2 | 5011642 | 5011665 | 5011224 | 5011237 | 5011693 | 5011703 | 5011725 | |
| 6.8 | 5011643 | 5011666 | 5011225 | 5011238 | 5011252 | 5011704 | 5011726 | |
| 7.5 | 5011644 | 5011667 | 5011679 | 5011239 | 5011253 | 5011705 | 5011727 | |
| 8.2 | 5011645 | 5011270 | 5011226 | 5011240 | 5011254 | 5011266 | 5011728 | |
| 9.1 | 5011646 | 5011668 | 5011680 | 5011489 | 5011255 | 5011706 | 5011729 | |

(Glue dots, approx. 200, part no. 3181932).

LIST OF ELECTRICAL PARTS

| 20 | 23 | 32 | 35 | 51 | 101 | 103 | 109 |
|-----|-------------|-----------|-------|-----|-------------|----------|------------|
| € B | 8 6 0 | △ | 0 | E B | 16 9 1 8 | ب | 8 5 1 2 |
| 136 | 209 | 27 2.4 | | | | | |
| | <u>^</u> | | | | | | |

PCB 22, 8007101 Demodulator system B/G 8007169 Demodulator system I

| IC1 Δ IC2 Δ | 8341099 8340496 | | TA 8662N TDA 2545A | | | | |
|----------------|--------------------|----------|--------------------------|------------|--------------------|----------|---------------------|
| TR1 TR4 | 8320615 8320785 | 51 32 | BC 848B BD 138-10 | TR5 TR6 | 8320538 8320615 | 23 51 | BF 959 BC 848B |
| D1 | 8300296 | 209 | ZPD 5.6V 2% | | | | ······ |
| R30 | 5010070 | 390 Ω | 5% 1/4W | | | | |
| C1 | 4000241 | 100 pH | F 5% 50V | C28 | 4010177 | 22 nF - | -20+80% 50V |
| C2 | 4010166 | 100 nI | F - 20+80% 50V | C29 | 4200516 | 47 µF | $20\%~16\mathbf{V}$ |
| C4 | 4010176 | 10 nF | -20+80% 50V | C30 | 4000282 | | `5% 50 V |
| Ċ5 | 4010177 | 22 nF | -20+80% 50V | C31 | 4000282 | | `5% 50 V |
| C6 | 4200516 | 47 µF | 20% 16V | C32 | 4000240 | | 5% 50V |
| C7 | 4200523 | 0.47 μ | F 20% 50V | C34 | 4340028 | | |
| C8 | | | F 20% 50V | C35 | 4340028 | - | |
| C9 | | | -20+80% 50V | C36 | 4130236 | | 20%63V |
| C10 | 4000276 | | | C37 | 4000280 | | |
| C11 | 4000240 | | | C38 | | | 10% 50 V |
| C12 | 4000278 | | | C39 | | | -20+80 % 50\ |
| C13 | | | F 20% 50V | C41 | | | -20+80 % 50\ |
| C14-16 | | 10 nF | -20+80% 50V | C42 | | | 10% iOV |
| C17-20 | | | F - 20+80% 50V | C45 | | | -20+80% 50 |
| C21 | | | -20+80% 50V | C46 | | | F -20+8O% 50 |
| C22 C23 | | | F 20% 50V -20+80% 50V | C47 C48 | 4200508 | | 20% 25 V 5% 5(V |
| | 8020600 | Coil 1 | μH 10% | L6 | 8020747 | Coil 1 | mH 10% |
| L4 | 8020539 | Coil 3 | 8.9 MHz | L7 | | | mH 1)% |
| L5 | 8020600 | Coil 1 | μΗ 10% | L8 | 8020551 | Coil 4. | 7 μH 1 O % |
| BP1 | 8020734 | Band | pass filter 5.85 M | 1Hz | | | |
| SW1 | 8030162 | OFW | G9201 | | | | |
| X1 | 8090085 | Cryst | al 5.85 MHz | X2 | 8090083 | Crysta | al 5.824 MHz |
| IC1 Δ | 8341159 | 136 | CF 70123 | IC4 | Δ 8341182 | 2 109 | TD1 1541 |
| IC2 △ | 8341158 | | PCF 8574P | IC5 | 8340930 | 103 | LM833N |
| IC3 Δ | 8341183 | 136 | SAA 7220P/B | | | | |
| TR2 | 8320615 | | BC 848B | TR6 | | | BC;58B |
| TR3 | 8320615 | | BC 848B | TR7 | | | BC 48B |
| TR4* | 8320438 | | BD 536 | TR8 | | | BD137 |

3358242

8320785

8300402 209

8300396 209

8300296 209

TR5

D3

D6 D7 BD 138

Heat sink

BB 405B

ZPD 4.3V 5%

ZPD 5.6V 2%

TR9

D8

D9

8320616

8300578 209

8300173 209

51

BC158B

ZPI 9.1V 2%

ZPl **≴**8.2V 5%

PCB 23, 8007260 Nicam D/A Decoder

| △ indicates | that static electricity may |
|-------------|-----------------------------|
| destroy the | component. |

^{*} Specially selected or adapted sample.

| R61 R64 R65 | 5010064 | 390 Ω 5% 1/2W 2.2 kΩ 5% 1/4W 220 Ω 5% 1W | R85 R86 R89 | 5010411 | 47 Ω 5% 1/4W 47 Ω 5% 1/4W 68 Ω 5% 1/8W |
|-------------------|---------|------------------------------------------------|-------------------|---------|----------------------------------------------|
| C2 | 4010157 | 10 nF 10% 50V | C123 | 4130266 | 82 nF 5% 63V |
| C3 | 4130315 | 15 nF 5% 63V | C124 | 4130266 | 82 nF 5% 63V |
| C7 | 4010157 | 10 nF 10% 50V | C133 | | 6-50 pF 50V |
| C8 | 4130315 | 15 nF 5% 63V | C135 | 4010166 | 100 nF -20+80% 50V |
| C11- | 4000287 | 220 nF -20+80% 25V | C137 | | 100 nF -20+80% 50V |
| C17 | | | C138- | 4010176 | 10 nF -20+80% 50V |
| C18 | | 680 pF 5% 50V | C141 | | |
| C19- | 4000287 | 220 nF -20+80% 25V | C142- | 4010132 | 1 nF 10% 50V |
| C25 | | | C145 | | |
| C26 | | 33 nF 10% 50V | C146 | | 100 nF -20+80% 50 |
| C28 | 4130236 | 330 nF 20% 63V | C148 | | 22 nF -20-80% 50V |
| C30 | 4130236 | 330 nF 20% 63V | C149 | | 22 nF -20+80% 50V |
| C34 | | 330 nF 20% 63V | C150 | | 47 µF 20% 50V |
| C109 | 4010166 | 100 nF -20+80% 50V | C151 | | 47 μF 20% 10V |
| C110 | | 100 nF 20% 63V | C153 | | 100 nF -20÷80% 50 |
| C115 | 4010166 | 100 nF -20+80% 50V | C154 | | 100 nF -20+80% 50 |
| C116 | 4000361 | 33 pF 5% 50V | C155 | | 47 pF 5% 50V |
| C117 | 4000345 | 1 nF 5% 50V | C156 - | 4200510 | 10 μF 20% 16V |
| C118 | 4000234 | 47 pF 5% 50V | | | |
| L1 | 8020552 | Coil 10 µH 10% | | | |
| F1 | 6600090 | Fuse 500 mAT 250V | | | |
| F2 | 6600090 | Fuse 500 mAT 250V | | | |
| X5 | 8090082 | Crystal 16.384 MHz | | | |
| P1 | 7220428 | Plug 6/6 pole | | | |
| P2 | | Plug 6 pole | | | |
| P4 | | Plug 4 pole | | | |
| P5 | | Plug 17/17 pole | | | |
| P6 | | Link panel | | | |
| DJI | 8300518 | BA 157 | | | |
| CR24 | 4200917 | 100 μF -20+50% 40V | | | |
| | 3152559 | Holder f/PCB 12 | | | |
| | | Bag w/parts | | | |
| | | Mounting instructions | | | |
| | 3503537 | Owner's manual | | | |
| _ | | Holder f/PCB 12 | | | |
| | | Bag w/parts | | | |
| | | 5 IC f/1IR01 - HD 40491 | 9 | | |
| | | 7 Instruction f/1IR01 | | | |
| | | Mounting instruction | | | |
| | 3503537 | 7 Owner's manual | | | |

PCB 1, Basic Board

Parts not shown *Type 3037-3040*

Туре 3041-3042

JUSTERINGER

Vigtigt! Der må ikke justeres i filteret BP 1.

Ved alle justeringer skal apparatet tilføres et NICAM stereo antennesignal.

Carrier VCO

Tilslut et oscilloskop til ben 20 på 22IC5, QPSK-Demodulator (TP1).



Med C 34 justeres, indtil øjemønster-signalet er støjfrit og stabilt.

Clock-VCO

Drej C 35 med uret, indtil stereolyden forsvinder, (stereo-indikatorerne i øverste højre hjørne af TV'et slukker). Drej derefter C 35 mod uret, indtil stereolyden forsvinder. Drej nu C 35 til midt imellem de to punkter.

OSC

Indstil oscilloskopet til DC, og tilslut det mellem R50 og R55 (TP2).

Juster C 133, indtil spændingen står stabilt på 1,5 V DC.

ADJUSTMENTS

Note! Do not adjust in the filter BP 1.

During all adjustments, the TV-set must be fed a NICAM stereo antenna signal.

Carrier VCO

Connect an oscilloscope to pin 20 of 22IC5, QPSK-Demodulator (TP1).



Adjust C 34, until the eye pattern signal is noiseless and stable.

Clock VCO

Turn C 35 clockwise until the stereo sound disappears (the stereo indicators in the upper right-hand corner of the TV-set switches off). Now turn C 35 counter-clockwise until the stereo sound disappears. Finally turn C 35 until mid-position between the two positions.

OSC

Set the oscilloscope to DC and connect it between R50 and R55 (TP2).

Adjust C133 until the voltage is stable at 1.5 V DC.

Bang & Olufsen

JUSTIERUNGEN

Wichtig! Keine Justierungen am Filter BP 1 vornehmen.

Bei sämtlichen Einstellvorgängen muß dem Gerät ein NICAM-Stereo-Antennensignal zugeführt werden.

Spannungsgeregelter Träger-Oszillator

Einen Oszillographen an Anschluß 20 des 22IC5, QPSK-Demodulator (TP1) anschließen.



Mit C 34 solange justieren, bis das Augenmuster-Signal rauschlos und stabil ist.

Spannungsgeregelter Clock-Oszillator

C 35 im Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet (die Stereo-Anzeigelämpchen in der oberen, rechten Ecke des Fernsehgerätes erlöschen). Anschließend C 35 entgegen dem Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet. Jetzt C 35 auf eine Position zwischen den beiden Punkten einstellen.

OSC

Den Oszillographen auf Gleichstrom einstellen und zwischen R50 und R55 (TP2) anschließen. C 133 solange verstellen, bis die Spannung bei 1,5 V Gleichstrom stabil ist.

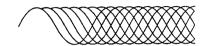
REGLAGES

Attention! Il est interdit de régler le filtre BP 1.

Pour tous les réglages, appliquer à l'appareil un signal stéréo d'antenne NICAM.

Carrier VCO

Raccorder un oscilloscope à la bobine 20 de 22IC5, QPSK-Demodulateur (TP1).



A l'aide de C 34, régler jusqu'à ce que le signal rappelant un oeil soit stable et exempt de parasite.

Clock VCO

Tourner le condensateur C 35 dans le sens horaire jusqu'à évanouissement du son stéréo (les indicateurs stéréo dans le coin supérieur droit du téléviseur s'éteignent). Tourner ensuite C 35 dans le sens antihoraire jusqu'à évanouissement du son stéréo. Amener alors le condensateur C 35 à mi-chemin entre ces deux points.

OSC

Régler l'oscilloscope sur cc et le raccorder entre R50 et R55 (TP2).

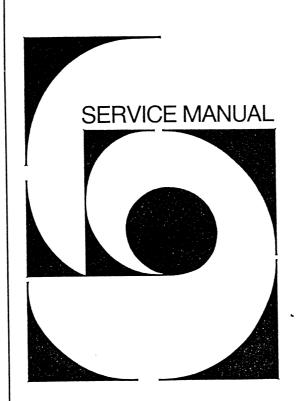
Régler C 133 jusqu'à obtenir une tension stable de 1,5 V cc.

Motorized Base 5000

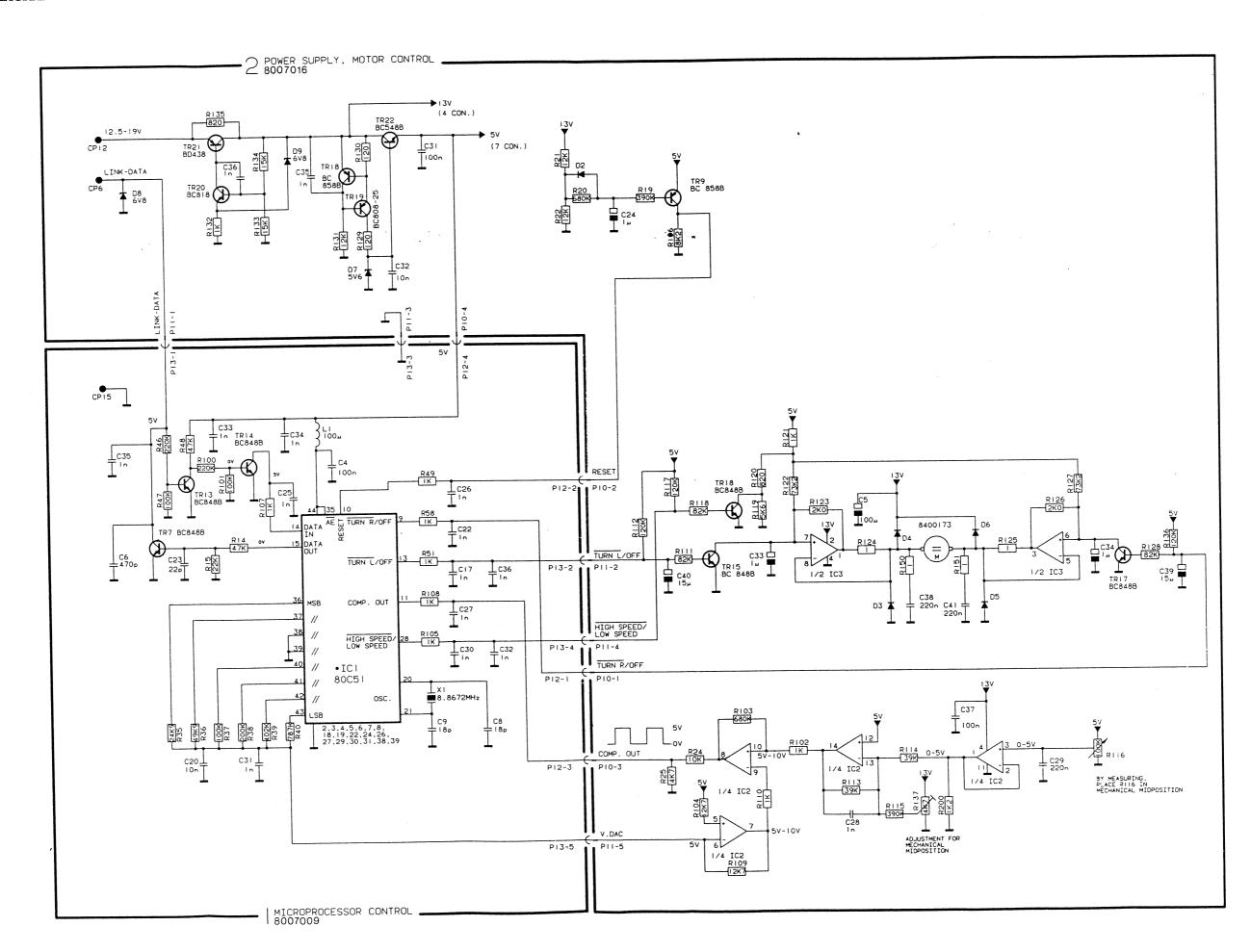
Type 3080

Motorized Stand 5000

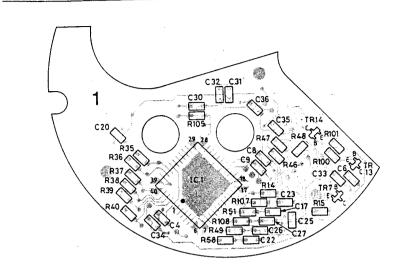
Type 3081



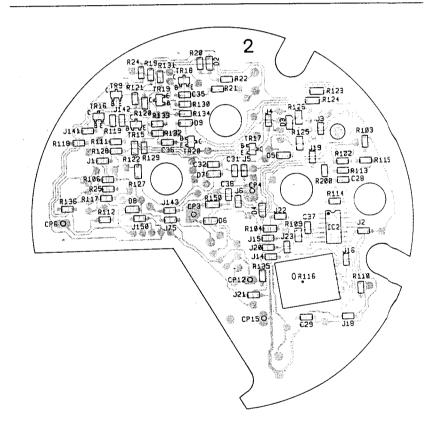
| | T . M. 2000 |
|----------------------------------|---------------------------------------------------|
| Motorized Base, MB 5000 | Type No. 3080 |
| Placement | Table-top |
| Motorized Stand, MS 5000 | Type No. 3081 |
| Placement | Floor stand |
| Designed for | Beovision MX 5000 Beolink 1000 |
| Remote operation | ± 35 degree from center position |
| Furning angle | 6 sec. from center to 35 degree |
| Time for turning | Automatic return to center position |
| TV Stand by | At start TV, automatic turn to last used position |
| Memory MX 5000 | 4-pin DIN cable to MX 5000 |
| Connections | 12 volts from MX 5000 |
| Power supply | 2.4 watts |
| Power consumption | Black |
| Finish | MB 5000: 45x6x36 cm/3.5 kg |
| Dimensions WxHxD/Weight | MS 5000: |
| | Cover system for cables |
| Accessories in price: | Cover system for capies |
| | |
| Subject to change without notice | |
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PCB 1, Control



PCB 2, Power Supply Motor Control



19-4

Bang & Olufsen

| LIST OF | ELECTRICAL | PARTS |
|---------|------------|--------------|
|---------|------------|--------------|

| LIST OF ELECTRICAL PARTS | 20 | 32 | 5 | 1 | 103 | 138 | 144 | 224 | 4 250 |
|-----------------------------------------------|-------------------------------------------------------|--------------------|----------|---------|--------------------|---------------------------------------|--------------------|-----------------------------------------------------------------|---------------------|
| | E | Δ | Į. | å | ئے | <u> </u> | | ** |] ^ |
| | [c | 1 111 | | لــــ | ا ا | را ا | 1 | ا ليَّت |] |
| | É É É É | | | | | | | | |
| | Resistors not referred to are standard, see page 19-5 | | | | | | | | |
| | 0R116 | 5300131 | Potenti | omete | er | | | | |
| PCB 1, 8007009 Control | IC1* △ | 8341100 | 144 | μP 8 | 0C51 | | | | · · · · · · |
| | TR7 | 8320615 | 51 | | 848B | | | | |
| | TR13 TR14 | 8320615 8320615 | 51 51 | | 848B 848B | | | | |
| w3 | | | | | | | | | |
| | R35 R36 | 5011598 5011599 | | | | R38 R39 | 5011601 5011602 | | |
| | R37 | 5011600 | | | | R40 | 5011603 | 787 kΩ | 1% 1/8W |
| | <u> </u> | 4010166 | 100 pF | 7 -20+ | -80% 50V | C22 | 4010132 | 1 nF 10 | % 50V |
| | C4 C6 | 4000286 | 470 pH | F 5% 5 | 50V | C23 | 4000277 | 22 pF 5 | % 50V |
| | C8 | 4000276 | | | | C25- C27 | 4010132 | 1 nF 10 | % 50 V |
| | C9 C17 | 4000276 4010132 | | | | C30- | 4010132 | 1 nF 10 | % 50V |
| | C20 | 4010176 | | | | C36 | | | |
| | L1 | 8020621 | Coil 1 | 00 µH | [| | | | |
| | X1 | 8090005 | Crysta | al 8.86 | 672 MHz | | | | |
| | P12 P13 | 7210775 7210776 | | | | | | | |
| | <u></u> | | | | 00436 | · · · · · · · · · · · · · · · · · · · | | _ | |
| PCB 2, 8007016 Power Supply, Motor Control | IC2 IC3 | 8341041 8341351 | | | 324M 72M | | | | |
| | TR9 | 8320616 | 5 51 | | 858B | TR19 | 8320609 | | BC 808-25 |
| | TR15- | 8320615 | 5 51 | BC | 848B | TR20 TR21 | 8320757 8320428 | | BC 818-40 BD 438 |
| | TR17 TR18 | 8320616 | 5 51 | ВС | 858B | TR22 | 8320108 | | BC 548B |
| | D2- D6 | 8300482 | 2 250 | LL | . 4148 | | | | |
| | D6 D7 | 830056 | 2 250 | Z5 | 5.6V 2% | | | | |
| | D8 D9 | 830052 830052 | 0 224 | | 5.8V 5% 5.8V 5% | | | | |
| | | | | | | B105 | 501175 | 100 | (1 /4317 |
| | R104 | 501176 | | | | R125 R126 | | $\frac{5}{3} + \frac{1}{2} \frac{\Omega}{0} \frac{29}{k\Omega}$ | 6 1/4W : 1% 1/4W |
| | R109 R122 | | | | % 1/4W % 1/4W | R127 | | | Ω 1% 1/4W |
| | R123 | 501176 | 3 2.0 k | Ω 1% | 1/4W | R137 | | | 20% 0.1W |
| | R124 | 501175 | 5 1 Ω | 2% 1/ | 4 W | R150 | 501175 | 5 1Ω29 | 70 1/4 ** |

 $\boldsymbol{\Delta}$ indicates that static electricity may destroy the component.

^{*}Specially selected or adapted sample.

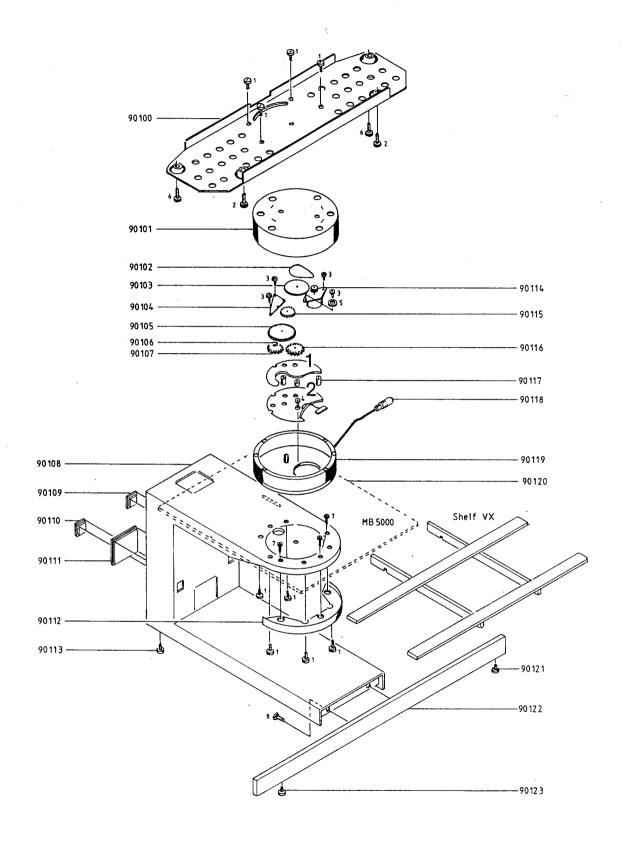
| C5 C24 C28 C29 C31 C32 C33 | 4200512 4010132 4000287 4010166 4010176 | 100 µF -10+100% 25V 1 µF 20% 50V 1 nF 10% 50V 220 nF -20+80% 25V 100 nF -20+80% 50V 10 nF -20+80% 50V 1 µF -10+50% 63V | C34 C35 C36 C37 C38 C39 C40 | 4010132 4010132 4010166 4000287 4200521 | 1 μF -10+50% 63V 1 nF 10% 50V 1 nF 10% 50V 100 nF -20+80% 50V 220 nF -20+80% 25V 15 μF 20% 16V 15 μF 20% 16V |
|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| P10 P11 | | Plug 4/4 pole Plug 5/5 pole | | | |

Standard Resistors:

Resistors SMD 2% 1/8 W SMD 5% 1/8 W

| | 5% | 2% | 2% | 2% | 2% | 2% | 5% | 5% |
|-------------------|-------------------------------|-------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 | 5011623 | 5011647 | 5011218 | 5011227 | 5011241 | 5011256 | 5011267 | 5011730 |
| 1.1 | 5011624 | 5011648 | 5011669 | 5011681 | 5011689 | 5011694 | 5011707 | |
| 1.2 | 5011625 | 5011649 | 5011219 | 5011682 | 5011490 | 5011257 | 5011708 | |
| 1.3 | 5011626 | 5011650 | 5011670 | 5011683 | 5011242 | 5011258 | 5011709 | |
| 1.5 | 5011627 | 5011651 | 5011220 | 5011228 | 5011243 | 5011259 | 5011710 | |
| 1.6 | 5011628 | 5011652 | 5011671 | 5011684 | 5011690 | 5011695 | 5011711 | |
| 1.8 | 5011629 | 5011653 | 5011672 | 5011229 | 5011244 | 5011260 | 5011712 | |
| 2.0 | 5011630 | 5011654 | 5011673 | 5011685 | 5011691 | 5011696 | 5011713 | |
| 2.2 | 5011216 | 5011655 | 5011674 | 5011230 | 5011245 | 5011261 | 5011714 | |
| 2.4 | 5011634 | 5011656 | 5011675 | 5011686 | 5011246 | 5011697 | 5011715 | |
| 2.7 | 5011635 | 5011657 | 5011497 | 5011231 | 5011247 | 5011262 | 5011716 | |
| 3.0 | 5011731 | 5011658 | 5011499 | 5011500 | 5011692 | 5011698 | 5011717 | |
| 3.3 | 5011217 | 5011659 | 5011676 | 5011232 | 5011248 | 5011263 | 5011718 | |
| 3.6 | 5011636 | 5011660 | 5011677 | 5011687 | 5011249 | 5011264 | 5011719 | |
| 3.9 | 5011637 | 5011661 | 5011221 | 5011233 | 5011491 | 5011699 | 5011720 | |
| 4.3 | 5011638 | 5011662 | 5011498 | 5011688 | 5011492 | 5011700 | 5011721 | |
| 4.7 | 5011639 | 5011269 | 5011222 | 5011234 | 5011250 | 5011265 | 5011722 | |
| 5.1 | 5011640 | 5011663 | 5011678 | 5011235 | 5011493 | 5011701 | 5011723 | |
| 5.6 6.2 6.8 | 5011641 5011642 5011643 | | 5011223 5011224 5011225 | 5011236 5011237 5011238 | 5011251 5011693 5011252 | 5011702 5011703 5011704 | 5011724 5011725 5011726 | |
| 7.5 8.2 9.1 | 5011644 5011645 5011646 | 5011270 | 5011226 | 5011239 5011240 5011489 | | 5011705 5011266 5011706 | | |
| (Glue | dots, app | rox. 200, p | art no. 318 | 1932). | | | | |

LIST OF MECHANICAL PARTS



MS 5000 MB 5000 01Modul 8007009 PCB 1, Control

| MID 3000 | 02Modul 8007016 PCB 2, Power Supply, Motor Control |
|------------------------------|-------------------------------------------------------------------|
| | |
| | 90100 3124117 Mounting plate |
| | 90101 3164733 Cover |
| | 90102 2732085 Rubber belt |
| | 90103 2724080 Belt pulley |
| | 90104 3014084 Guide plate 90105 2700091 Gear wheel, complete |
| | 90105 2700091 Gear wheel, complete 90106 2390002 Safety washer |
| | 90107 2700075 Gear wheel |
| | 90108 3100036 Frame |
| | 90109 3341072 Cover, square |
| | 90110 3341072 Cover, square |
| | 90111 3341071 Cover, square |
| | 90112 3164735 Cover, round |
| | 90113 3035055 Rubber foot |
| | 90114 8400173 Motor |
| | 90115 2700072 Gear wheel 90116 2700076 Gear wheel |
| | 90116 2700076 Gear wheel 90117 3152645 Spacer |
| | 90117 3132040 Spacer 90118 6270400 Wire 4 pole DIN |
| | 90119 3150071 Bearing housing |
| | 90120 2752024 Plate f/MB 5000 |
| | 90121 3035055 Rubber foot |
| | 90122 3450721 Rail |
| | 90123 3035055 Rubber foot |
| C | 2044035 Screw M5 x 10mm |
| Survey of screws and washers | 1 2044035 Screw M5 x 10mm 2 2021011 Screw 5 x 15mm |
| | 3 2011037 Screw 2.5 x 10mm |
| | 4 2013121 Screw 3 x 14mm |
| | 5 2524032 Washer |
| | 6 2044055 Screw M5 x 16mm |
| | 7 2011039 Screw 2.5 x 10mm |
| | 8 2046030 Screw M6 x 12mm |
| | 9 2044032 Screw M5 x 10mm f/MB 5000 |
| Parts not shown | 3390345 Bag w/screws etc. |
| 1 arts not shown | 3911113 Cable sleeve |
| MD 5000 | 3503534 Installation guide |
| MB 5000 | 3390210 Bag |
| | 3397673 Foam packing |
| | 3392055 Carton |
| MS 5000 | 3390349 Bag w/screws etc. |
| M2 2000 | 3911113 Cable sleeve |
| | 3503535 Installation guide |
| | 3397689 Foam insert |
| | 3397675 Foam packing |
| | 3392062 Carton |
| Shelf VX 8930776 | Not included in MS 5000 |
| Suen av oasoure | Not included in the over |

19-8

Bang & Olufsen

VIGTIGT!

BUNDSKRUERNE MÅ IKKE TAGES AF, TAG PLASTLÅGET AF VED SERVICERING

Kontrol/justering af drejebord

Samling af drejebord

- Træk ledning med DIN-stik gennem hullet i bunden.
- Saml 'motor control' PCB02 og microprocessor PCB01 med de tre plasttappe og skru dem fast i bunden af lejeenheden.
- Monter tandhjul A.
 Tandhjulet skal stå i midten af tandkransen (8 takker til hver side). Fastgør tandhjulet med en låseskive.
- Monter tandhjul B på potentiometeret.
 Drej markeringen på dette hjul, så det passer med markeringen på printet (1 mm hul).
- Læg tandhjul C ned så det går i indgreb med de to første tandhjul.
- Læg tandhjul D ned så det går i indgreb med tandhjul C.
- Monter motor og transistor.
- Sæt den trekantede metalplade på.

 Markeringen på potentiometeret må ikke have
 flyttet sig fra markeringen på printet, og tandhjulet
 A skal stadig stå midt på tandkransen.
- Monter tandhjul E så det går i indgreb med tandhjul D.
- Monter remmen.

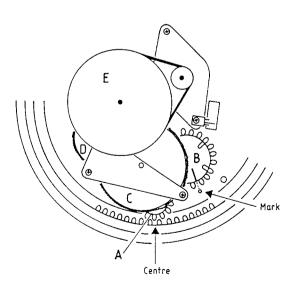
IMPORTANT!

DO NOT REMOVE BOTTOM SCREWS, REMOVE PLASTIC COVER WHEN SERVICING

Control/Adjustment of Motorized Stand

Assembly of Motorized Stand

- Draw wire with DIN plug through hole in bottom.
- Assemble »motor control« PCB02 and microprocessor PCB01 with the three plastic studs and screw them to the base of the bearing unit.
- Assemble cogwheel A.
 Cogwheel A must be in the centre of the rim (8 cogs on each side). Fix the cogwheel with a lock washer.
- Assemble cogwheel B on the potentiometer. Turn the mark on cogwheel B until it fits the mark on the printed circuit board (1 mm hole).
- Lower cogwheel C so it meshes with the first two cogwheels.
- Lower cogwheel D so it meshes with cogwheel C.
- Assemble the motor and the transistor.
- Fit the triangular metal plate. The mark on the potentiometer must still fit the mark on the printed circuit board, and cogwheel A must still be in the centre of the rim.
- Fit cogwheel E so it meshes with cogwheel D.
- Fit the belt.



Drejebordet er nu klar til justering/kontrol

- Slut drejebordet til en modtager.
- Drej drejebordet ca. 20° til den ene side: PICTURE ▷
- Gem positionen: STORE PICTURE STORE
- Sluk modtageren:

Drejebordet skal nu returnere, så markeringen på tandhjulet passer med markeringen på printet.

Hvis ikke markeringen passer, skal drejebordet justeres med trimmepotentiometeret, som kan nås fra den modsatte side.

- Tænd modtageren.
- Sluk når den gemte position er opnået.

Fortsæt indtil justeringen passer.

- Monter plastlåget.

The motorized stand is now ready for adjustment/control

- Connect the stand to a receiver.
- Turn the stand approx. 20° to one side: PICTURE ≥
- Save the position: STORE PICTURE STORE
- Turn off the receiver:

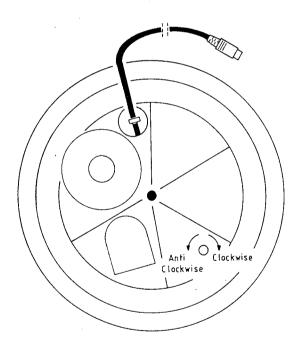
The motorized stand should now return so the mark on the cogwheel fits the mark on the printed circuit board.

If the marks do not fit, then the motorized stand must be adjusted using the trimpotentiometer, which can be reaced from the opposite side.

- Turn on the receiver.
- Turn off when the saved position has been reached.

Continue until the adjustment fits.

- Fit the plastic cover.



19-10

Bang & Olufsen

WICHTIG!

DIE UNTEREN SCHRAUBEN NICHT ENTFERNEN, BEI WARTUNGEN DEN KUNST-STOFFDECKEL ABNEHMEN

Überprüfung/Justierung des motorisiertes Fußgestells

Zusammenbau des Fußgestells

- Eine Leitung mit einem DIN-Stecker durch das Loch am Boden hindurchziehen.
- »motor control« PCB02 sowie den Mikroprozessor PCB01 mit den drei Kunststoffzapfen montieren und am Boden der Lagereinheit festschrauben.
- Zahnrad A montieren.
 Das Zahnrad muß sich in der Mitte des Zahnkranzes befinden (8 Zähne an jeder Seite). Das Zahnrad mit Hilfe einer Arretierscheibe befestigen.
- Zahnrad B an das Potentiometer montieren.
 Die Kennzeichnung an diesem Rad so drehen, daß sie mit der Kennzeichnung auf der Printplatte (1 mm Loch) übereinstimmt.
- Zahnrad C so anbringen, daß es mit den beiden ersten Zahnrädern in Eingriff kommt.
- Zahnrad D so anbringen, daß es mit Zahnrad C in Eingriff kommt.
- Motor und Transistor montieren.
- Das dreieckige Blech aufsetzen.
 Die Kennzeichnung am Potentiometer darf sich nicht von der Kennzeichnung auf der Printplatte entfernt haben, und das Zahnrad A muß sich immer noch in der Mitte des Zahnkranzes befinden.
- Das Zahnrad E so montieren, daß es mit dem Zahnrad D in Eingriff kommt.
- Riemen montieren.

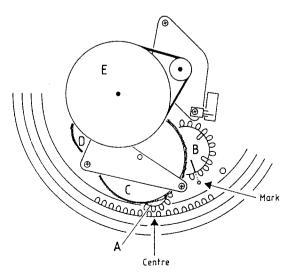
IMPORTANT!

NE PAS RETIRER LES VIS DE FOND, RETIRER LE COUVERCLE PLASTIQUE POUR LES OPERATIONS DE MAINTENANCE

Commande et réglage de la table orientable

Assemblage de la table orientable

- Amener le câble muni de la prise DIN par l'orifice du fond.
- Assembler la carte PCB02 «motor control» et la carte PCB01 microprocesseur à l'aide des trois chevilles plastique et les visser dans le fond du dispositif à palier afin de les fixer.
- Monter la roue d'engrenage A.
 La roue d'engrenage doit être au milieu de la couronne dentée (avec huit dents de chaque côté).
 Fixer la roue d'engrenage à l'aide d'une rondelle-frein.
- Monter la roue d'engrenage B sur le potentiomètre.
 Faire tourner la marque de cette roue de manière à la faire coïncider avec la marque de la carte de circuit imprimé (orifice 1 mm).
- Positionner la roue d'engrenage C de manière qu'elle s'engrène avec les deux premières roues.
- Positionner la roue d'engrenage D de manière qu'elle s'engrène avec la roue d'engrenage C.
- Monter le moteur et le transistor.
- Poser la plaque de métal triangulaire.
 La marque du potentiomètre ne doit pas s'être déplacée par rapport à la marque de la carte de circuit imprimé, et la roue d'engrenage A doit toujours être au milieu de la couronne dentée.
- Monter le roue d'engrenage E de manière qu'elle s'engrène avec la roue d'engrenage D.
- Monter la courroie.



Das motorisierte Fußgestell kann nunmehr justiert/überprüft werden

- Das Fußgestell an einen Empfänger anschließen.
- Das Fußgestell um ca. 20° nach einer Seite drehen: PICTURE ▷
- Die Position speichern: STORE PICTURE STORE
- Den Empfänger abschalten:

Das motorisierte Fußgestell soll sich jetzt zurückbewegen, so daß die Kennzeichnung am Zahnrad mit der Kennzeichnung auf der Printplatte übereinstimmt

Wenn die Kennzeichnung nicht am richtigen Platz ist, das Fußgestell mit Hilfe des Trimmerpotentiometers, das von der gegenüberliegenden Seite erreichbar ist, einstellen.

- Empfänger einschalten.
- Nach Erreichen der gespeicherten Position abschalten.

Weitermachen, bis die Einstellung stimmt.

- Kunststoffdeckel montieren.

La table orientable est à présent prête à être réglée/utilisée

- Connecter la table à un récepteur.
- Faire tourner la table de 20° environ d'un côté: PICTURE >
- Mémoriser la position: STORE PICTURE STORE
- Eteindre le récepteur:

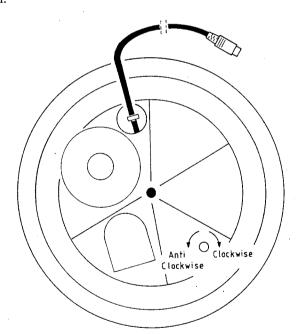
La table orientable doit alors revenir dans la position où la marque de la roue d'engrenage coïncide avec la marque de la carte de circuit imprimé.

Si ces marques ne coïncident pas, il convient de régler la table orientable à l'aide du potentiomètre d'équilibrage, accessible par le côté opposé.

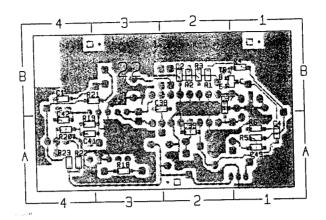
- Allumer le récepteur.
- L'éteindre une fois obtenue la position mémorisée.

Poursuivre jusqu'à ce que le réglage soit satisfaisant.

- Monter le couvercle plastique.

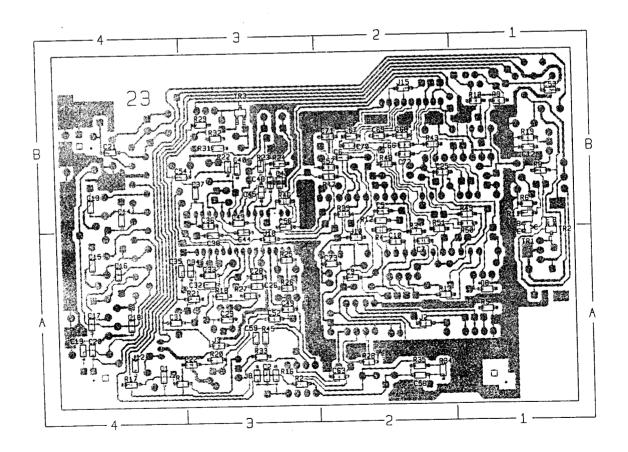


PCB 22, Demodulator New version



www.manualscenter.com

PCB 23, Nicam D/A Decoder New version



NICAM 728

NEW VERSION

Type 3037 installation kit Pal B/G for Beovision MX3000/5000

Type 3040 installation kit Pal I for Beovision MX3000/5000

Type 3041 installation kit Pal B/G for Beovision MX3000/4500

Type 3042 installation kit Pal I for Beovision MX3000/4500

Beovision MX3000, type 3142-3148

Beovision MX 5000, type 3212-3218

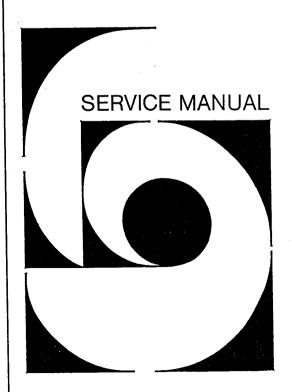


DIAGRAM D STEREO DECODER, SOUND CONTROLS, NICAM 728 DIGITAL SIGNAL PROCESSING, NEW VERSION

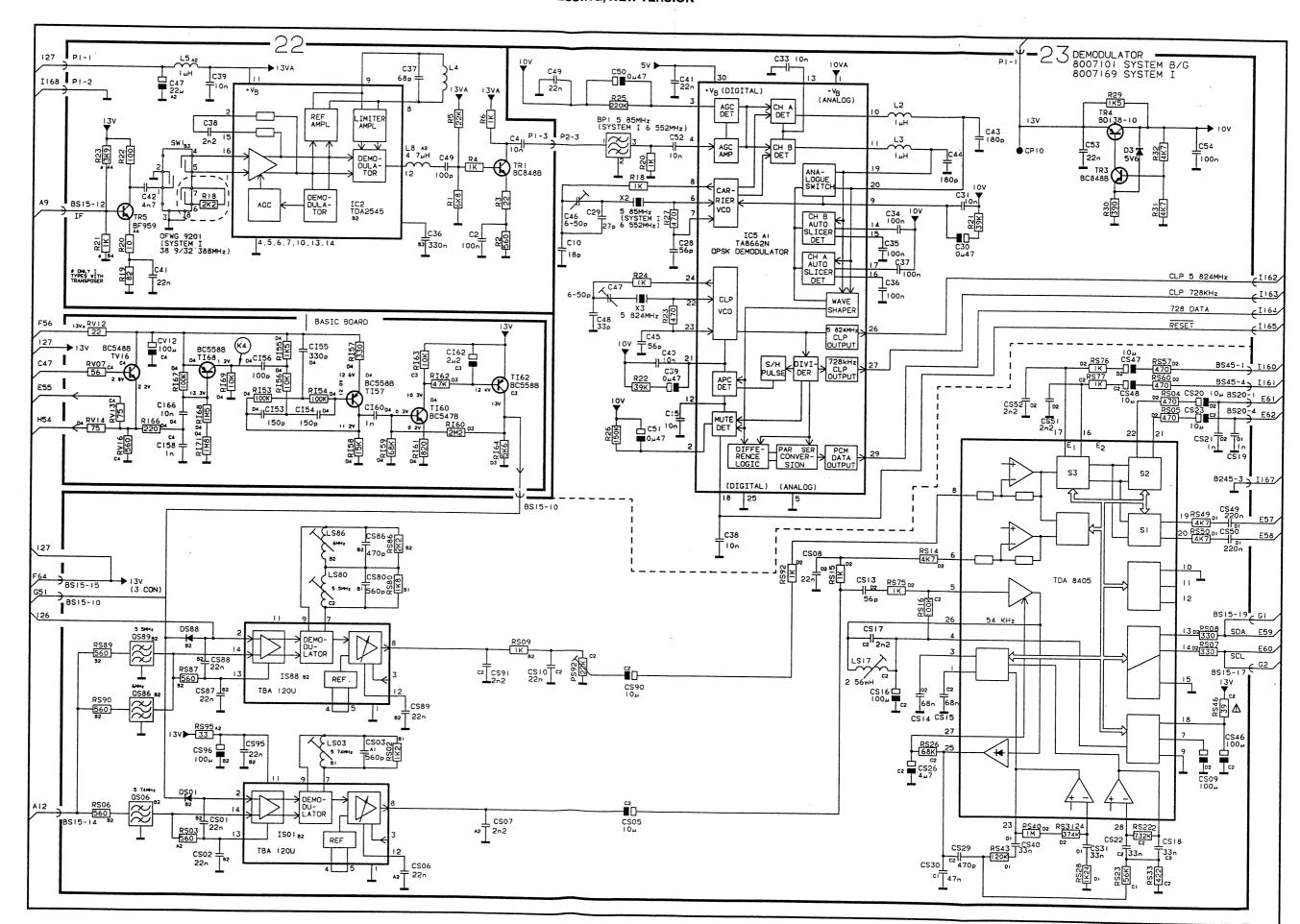


DIAGRAM E AF-AMPLIFIER, LINK INTERFACE, A/V CONNECTIONS, NEW VERSION

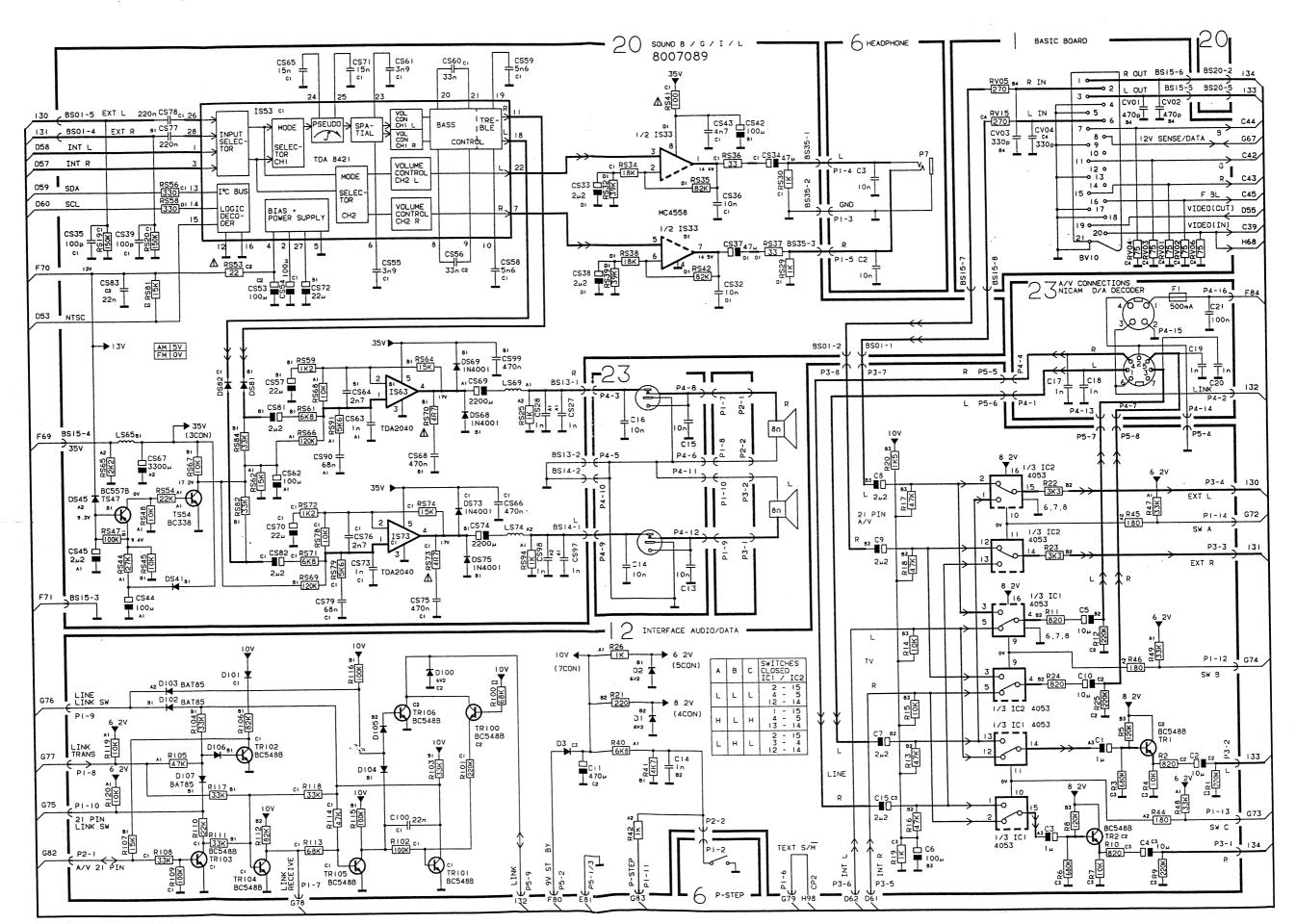
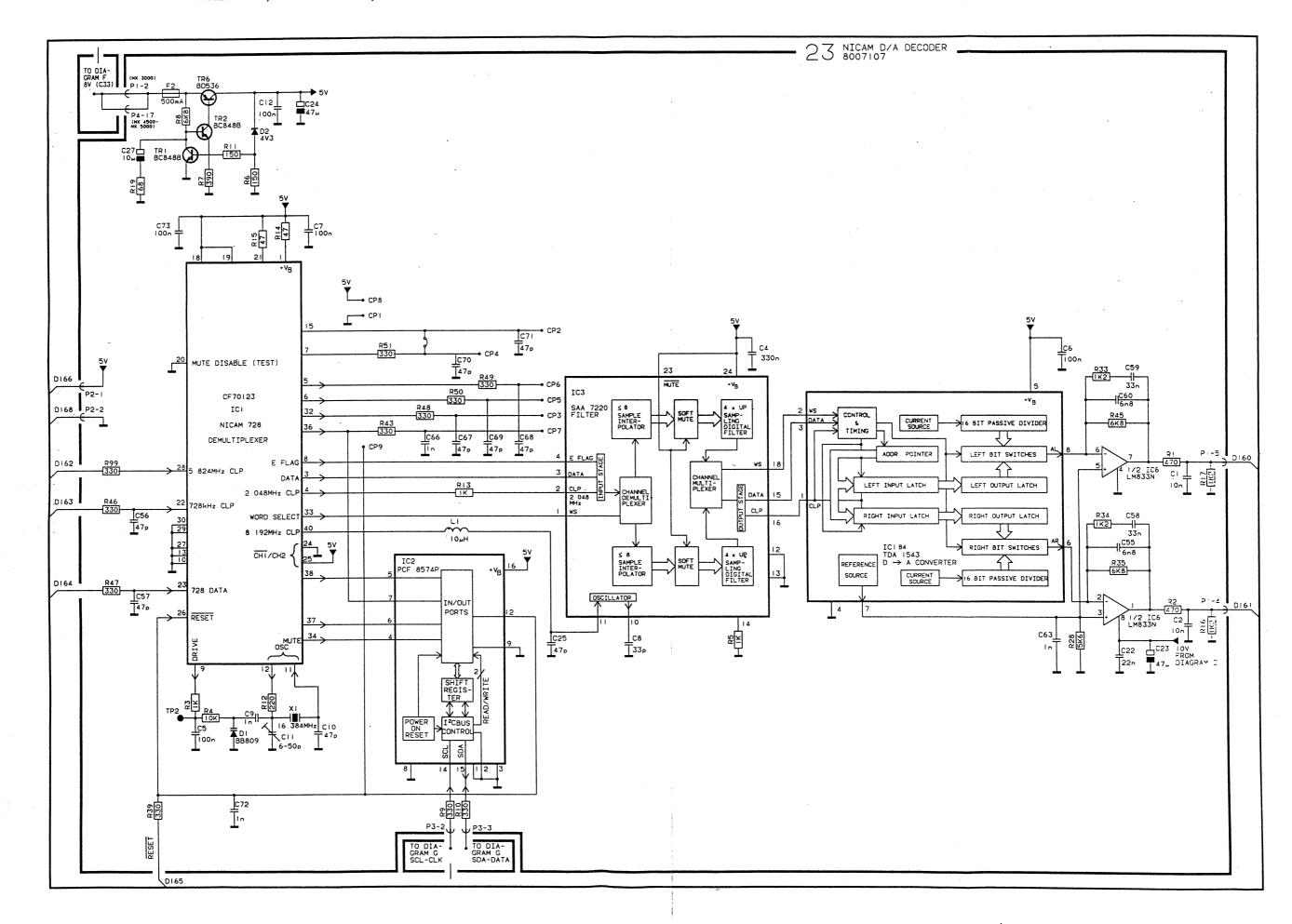
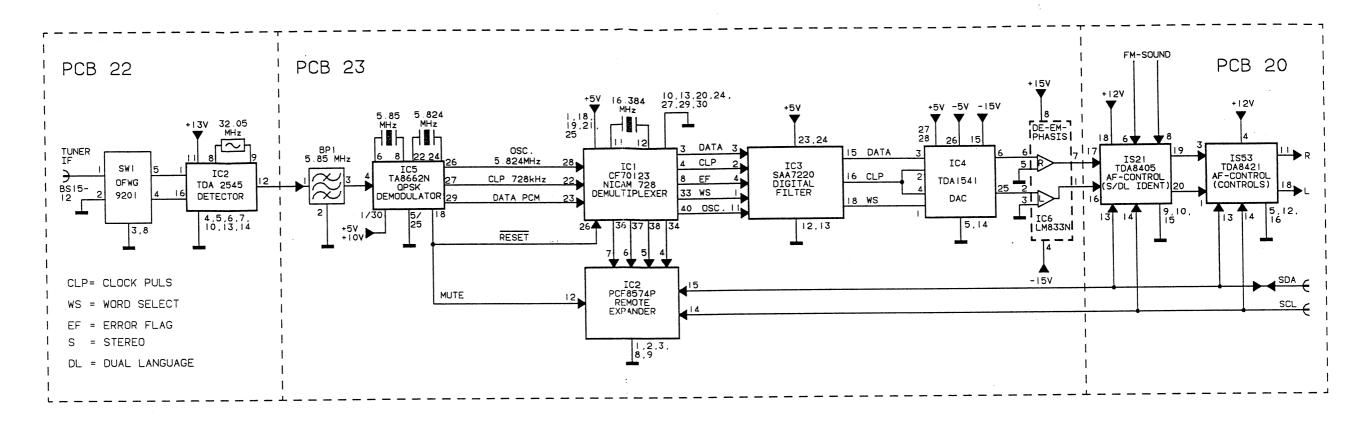


DIAGRAM I NICAM 728 DIGITAL FILTER, D/A CONVERTER, NEW VERSION



BLOCK DIAGRAM (NEW VERSION)



Standard Resistors: Resistors SMD 2% 1/8 W SMD 5% 1/8 W

| | 5 % | 2% | 2 % | 2% | 2% | 2% | 5% | 5% |
|-------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 1.1 1.2 | 5011623 5011624 5011625 | 5011647 5011648 5011649 | 5011218 5011669 5011219 | 5011227 5011681 5011682 | 5011241 5011689 5011490 | 5011256 5011694 5011257 | 5011267 5011707 5011708 | 5011730 |
| 1.3 1.5 1.6 | 5011626 5011627 5011628 | 5011650 5011651 5011652 | 5011670 5011220 5011671 | 5011683 5011228 5011684 | 5011242 5011243 5011690 | 5011258 5011259 5011695 | 5011709 5011710 5011711 | |
| 1.8 2.0 2.2 | 5011629 5011630 5011216 | 5011653 5011654 5011655 | 5011672 5011673 5011674 | 5011229 5011685 5011230 | 5011244 5011691 5011245 | 5011260 5011696 5011261 | 5011712 5011713 5011714 | |
| 2.4 2.7 3.0 | 5011634 5011635 5011731 | 5011656 5011657 5011658 | | 5011686 5011231 5011500 | 5011246 5011247 5011692 | 5011697 5011262 5011698 | 5011715 5011716 5011717 | |
| 3.3 3.6 3.9 | 5011217 5011636 5011637 | 5011659 5011660 5011661 | 5011676 5011677 5011221 | 5011232 5011687 5011233 | 5011248 5011249 5011491 | 5011263 5011264 5011699 | 5011718 5011719 5011720 | |
| 4.3 4.7 5.1 | 5011638 5011639 5011640 | 5011662 5011269 5011663 | 1 | 5011688 5011234 5011235 | 5011492 5011250 5011493 | | 5011721 5011722 5011723 | |
| 5.6 6.2 6.8 | 5011641 5011642 5011643 | 1 | 5011224 | 5011237 | 5011693 | 5011703 | 5011725 | |
| 7.5 8.2 9.1 | 5011644 5011645 5011646 | 5011270 | 5011226 | | 5011254 | 5011266 | | |

(Glue dots, approx. 200, part no. 3181932).

LIST OF ELECTRICAL PARTS New version

| 23 | 32 | 35 | 51 | 101 | 103 | 136 | 209 |
|-------|----|-------------------|----|---------|-----|-----|-----|
| B E C | | O III B C E | | <u></u> | 8.5 | | ^ |

PCB22, 8007251

| | ECB | | | | | | |
|-------------|--------------------|-------------|------------------------|------------|---------------------------------------------------|--------|--------------------------------|
| Resist | ors not re | ferrec | l to are standa | rd, see | page 20-5 | | |
| | | | ., | | | *. | |
| IC1∆ | 8340496 | 101 | TDA 2545A | | | • | |
| | | | | <u>.</u> | | | 75. |
| TR1 | 8320615 | 51 | BC 848B | TR5 | 8320538 | 23 | BF 959 |
| | | | | | | | |
| C1 | 4010132 | | 10% 50V | C39 | 4010176 | | -20+80% 50V |
| C2 | | | F-20+80% 50V | C41 | 4010177 | | `-20+80% 50V |
| C4 | 4010176 | | C-20+80% 50V | C42 C47 | 4010173 4200488 | | 10% 50V |
| C36 | 4130171 | | F 20% 63V `5% 50V | C47 C49 | 4000241 | | C 20% 25V F 5% 50V |
| C37 C38 | 4000280 4010170 | | F 10% 50V | C49 | 4000241 | 100 p | IF 370 30 V |
| | 4010170 | 2.2 111 | | | 1411- W. 2011-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | |
| L4 | 8020359 | Coil 3 | 38.9 MHz | L8 | 8020551 | Coil 4 | 4.7 µH 10% |
| L5 | 8020600 | | μΗ 10% | | | | |
| | | | • | | | | |
| SW1 | 8030162 | OFW | G9201 | | | | |
| P1 | 7220710 | Plug | 3 pole | | | | |
| | 22/11/52 | 100 | OD 50100 | 104 | 00/11/04 | 100 | MD 4 1540 |
| IC1∆ | 8341159 | 136 | CF 70123 | IC4 | 8341194 | | TDA 1543 |
| IC2∆ | 8341158 | | PCF 8574P | IC5∆ | 8341099 | 136 | |
| IC3∆ | 8341183 | 136 | SAA 7220P/B | IC6 | 8640930 | 103 | LM 833N |
| TR1 | 8320615 | 51 | BC 848B | TR4 | 8320785 | 32 | BD 138 |
| TR2 | 8320615 | 51 | | TR6* | 8320438 | | BD 536 |
| TR3 | 8320615 | 51 | BC 848N | | 3358242 | | Heat sink |
| | | | | | | | |
| D1 | 8300656 | 209 | BB 809 | D3 | 8300296 | 209 | ZPD 5.6V 2% |
| D2 | 8300396 | 209 | ZPD 4.3V 5% | | | | |
| R7 | 5011021 | 3000 | 2 5% 1/2W | R30 | 5010070 | 3900 | 2 5% 1/4W |
| R14- | 5011021 | | 5% 1/4W | R99 | 5010070 | | 5% 1/4W |
| R15 | 3011021 | 4172 | 370 17411 | KJJ . | 2010044 | 5501 | 2 0 70 17 411 |
| | | <u></u> | | | | | |
| C1- | 4010157 | 10 n | F 10% 50V | C39 | 4200476 | | μF 20% 5 0 V |
| C2 | | | | C40 | 4010176 | | F -20+80% 50\ |
| C4 | 4130171 | | nF 20% 63V | C41 | 4010177 | | F -20+80% 50\ |
| C5- | 4010166 | 100 | nF-20+80% 50V | C43- | 4000282 | 180 | pF 5% 50 ∜ |
| C7 | 1000 | 6.0 | D =0/ = 0.77 | C44 | 10000: | F.0 | D 50/ 50% |
| C8 | 4000361 | | F 5% 50V | C45 | 4000240 | - | F 5% 50V |
| C9 | 4000345 | | 5% 50V | C46- | 4340028 | 5-60 | pF 50V |
| C11 | 4340028 | | pF 50V | C47 | 4000000 | 20 | D 504 50M |
| C12 | 4010166 | | nF -20+80% 50V | C48 | 4000239 | • | F 5% 50V |
| C13- | 4010176 | 10 n | F-20+80% 50V | C49 | 4010177 | | F-20+80% 50\ F 20% 50V |
| C16 | 4010120 | 1 - 5 | 1006 5037 | C50- | 4200476 | V.47 | μF 20% 50V |
| C17- | 4010132 | 1 11 | 10% 50V | C51 C52 | 4010176 | 10 - | F-20+80% 50V |
| C20 | 1010166 | 100 | nF -20+80% 50V | C52 | 4010176 | | F -20+80% 50\ F -20+80% 50\ |
| C21 | 4010166 4010177 | | F-20+80% 50V | C53 | 4010177 4010166 | | r -20+80% 50 nF -20+80% 50 |
| C22 C23 | 4200483 | | F 20% 16V | C54 | 4100241 | | nr -20+60% 50 iF 5% 63V |
| C23 | 4200483 | | F 20% 10V F 20% 10V | C56- | 4100241 | | F 5% 50V |
| | | | F 5% 50V | C56- | 4000234 | 41 b | . J/0 JU V |
| C25 | 4000293 | 41 p. | C 370 30 Y | C31 | | _ | |

C58-

C59

C60

C63

C66

C67-

C70

C72

C73

4010175 33 nF 10% 50V

4100241 6.8 nF 5% 50V

4000345 1 nF 5% 50V

4000345 1 nF 5% 50V

4000234 47 pF 5% 50V

4000345 1 nF 5% 50V 4010166 100 nF -20+80% 50V

4000276 18 pF 5% 50V

4000240 56 pF 5% 50V

4000278 27 pF 5% 50V

4010176 10 nF -20+80% 50V

4010166 100 nF -20+80% 50V

4010176 10 nF -20+80% 50V

10 µF 20% 16V

4200431

C26

C27

C28

C29

C30-

C33

C34

C37

C38

PCB 23, 8007259

[△]indicates that static electricity may destroy the component.

^{*}Specially selected or adapted sample.

| L1 L2 | 8020552 8020747 | Coil 10 µH 10% Coil 1 mH 10% | L3 L4 | 8020747 8020552 | Coil 1 mH 10% Coil 10 H 10% |
|----------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|--------------------|--------------------------------|
| BP1 | 8020734 | Band pass filter 5.85 MHz | | | |
| F1 | 6600090 | Fuse 500 mAT 250V | F2 | 6600090 | Fuse 500 mAT 250V |
| X1 X2 | 8090082 8090085 | Crystal 16.384 MHz Crystal 5.85 MHz | Х3 | 8090083 | Crystal 5.824 MHz |
| P1 P3 | 7220427 7220779 | Plug 5/5 pole Plug 4 pole | P4 P5 | 7220436 3168754 | Plug 17/17 pole Link panel |
| | 3152559 3390382 3543115 3503537 | Holder f/PCB 12 Bag w/parts Mounting instruction Owner's manual | | | |
| | 3152559 3390383 8341156 3543117 3543114 3503537 | Holder f/PCB 12 Bag w/parts IC f/1IR01 - HD 4049 Instruction f/1IR01 Mounting instruction Owner's manual | 919 | | |

Parts not shown *Type 3037-3040*

Type 3041-3042

JUSTERINGER

Vigtigt! Der må ikke justeres i filteret BP1.

Ved alle justeringer skal apparatet tilføres et NICAM stereo antennesignal.

Carrier VCO

Tilslut et oscilloskop til ben 20 på 23IC5, QPSK-Demodulator.



Med 23C46 justeres, indtil øjemønster-signalet er støjfrit og stabilt.

Clock VCO

Drej 23C47 med uret, indtil stereolyden forsvinder, (stereo-indikatorerne i øverste højre hjørne af TV'et slukker). Drej derefter 23C47 mod uret, indtil stereolyden forsvinder. Drej nu 23C47 til midt imellem de to punkter.

OSC

Indstil oscilloskopet til DC, og tilslut det mellem 23R3 og 23R4.

Juster 23C11, indtil spændingen står stabilt på 1,5 V DC.

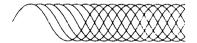
JUSTIERUNGEN

Wichtig! Keine Justierungen am Filter BP1 vornehmen.

Bei sämtlichen Einstellvorgängen muß dem Gerät ein NICAM-Stereo-Antennensignal zugeführt werden.

Spannungsgeregelter Träger-Oszillator

Einen Oszillographen an Anschluß 20 des 23IC5, QPSK-Demodulator anschließen.



Mit 23C46 solange justieren, bis das Augenmuster-Signal rauschlos und stabil ist.

Spannungsgeregelter Clock-Oszillator

23C47 im Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet (die Stereo-Anzeigelämpchen in der oberen, rechten Ecke des Fernsehgerätes erlöschen). Anschließend 23C47 entgegen dem Uhrzeigersinn drehen, bis der Stereo-Ton verschwindet. Jetzt 23C47 auf eine Position zwischen den beiden Punkten einstellen.

OSC

Den Oszillographen auf Gleichstrom einstellen und zwischen 23R3 und 23R4 anschließen. 23C11 solange verstellen, bis die Spannung bei 1,5 V Gleichstrom stabil ist.

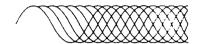
ADJUSTMENTS

Note! Do not adjust in the filter BP1.

During all adjustments, the TV-set must be fed a NICAM stereo antenna signal.

Carrier VCO

Connect an oscilloscope to pin 20 of 23IC5, QPSK-Demodulator.



Adjust 23C46, until the eye pattern signal is noiseless and stable.

Clock VCO

Turn 23C47 clockwise until the stereo sound disappears (the stereo indicators in the upper right-hand corner of the TV-set switches off). Now turn 23C47 counter-clockwise until the stereo sound disappears. Finally turn 23C47 until mid-position between the two positions.

OSC

Set the oscilloscope to DC and connect it between 23R3 and 23R4.

Adjust 23C11 until the voltage is stable at 1.5 V DC.

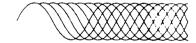
REGLAGES

Attention! Il est interdit de régler le filtre BP1.

Pour tous les réglages, appliquer à l'appareil un signal stéréo d'antenne NICAM.

Carrier VCO

Raccorder un oscilloscope à la bobine 20 de 23IC5, QPSK-Demodulateur.



A l'aide de 23C46, régler jusqu'à ce que le signal rappelant un oeil soit stable et exempt de parasite.

Clock VCO

Tourner le condensateur 23C47 dans le sens à oraire jusqu'à évanouissement du son stéréo (les indicateurs stéréo dans le coin supérieur droit du téléviseur s'éteignent). Tourner ensuite 23C47 dans le sens antihoraire jusqu'à évanouissement de son stéréo. Amener alors le condensateur 23C47 : michemin entre ces deux points.

OSC

Régler l'oscilloscope sur cc et le raccorder entre 23R3 et 23R4.

Régler 23C11 jusqu'à obtenir une tension stall e de 1,5 V cc.